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U. S. Department of Agriculture.

# BUTZER'S SEEDS

THE KIND  
THAT GROW  
"YOU CAN'T  
KEEP THEM  
IN THE  
GROUND"

J.J.BUTZER

186 FIRST ST., PORTLAND, ORE.

Vegetable Seed Trials

FEB 8 - 1932

# TO MY FRIENDS

I wish I had the room here to chat with you, as I want to tell you how much I appreciate your orders, but space will not permit. But one thing I want to tell you is that on account of the depression, we had to cut down on our catalog as paper, printing and postage are all very expensive. So we just had to cut. That is why this is the smallest catalog we have sent you for some time.

For over a quarter of a century, we have endeavored to offer in our annual catalog only such varieties of seeds as we have found to be of value to the grower because of some characteristics, either season of maturity, quality, quantity of production or beauty.

The items for orchard, gardens, lawns, poultry and other goods offered are products of well-known manufacturers and are recognized as standard.

Our aim has always been to supply only the best, and we do not hesitate to recommend any of this merchandise offered.

It has proven that our over a quarter of a century of experience in connection with some of the best growers in all parts of the world, qualify us to supply you with the best Seeds obtainable.

## BUSINESS INSTRUCTIONS

### What We Do and What You Should Do

**EARLY ORDERING.**—It will be helpful to our customers, as well as ourselves, to have orders placed early. Our policy is to make prompt shipments, but this is impossible as the busy season reaches its height. If your order is received late we may be sold out, as in case of shortage of crops, with no more stock obtainable. Send your order early; we will do the rest.

**SEND CASH WITH ORDER**—Remittances may be made by Money Order, Draft, Currency, or Stamps. We will accept any reasonable amount of stamps the same as cash, but we prefer to have 5, 10, 15 and 25 cent stamps. Be sure you register your letters if they contain cash. Money orders are the most economical and practical means of remitting.

**CORRESPONDENCE**—We try to give prompt attention to all proper letters of inquiry, etc., but ask, as a

favor, that all questions be stated clearly and briefly, and not on order sheets.

**HOW TO ORDER**—Fill out the order sheet enclosed herewith, writing your name and address very plainly. If you have lost our order blank any kind of paper will do. Just be sure you write your name and address plainly. We'll take care of the order.

**PREPAY STATIONS**—When you send in orders to go by freight or express, be sure you send extra money to pay the transportation charges, if your station is a prepay point, which is always the case where there is no regular agent. If you send more than enough, we will refund it as soon as we get the prepay bill. If not enough, we will write for the balance and expect you to remit promptly.

### OUR TERMS ARE STRICTLY CASH WITH THE ORDER

We do not send C. O. D., as the cost of collecting return charges is quite an unnecessary item of expense and the prices being given, we can conceive of no necessity to warrant goods being so sent.

### NAME AND ADDRESS SHOULD ALWAYS BE GIVEN

Frequently we receive unsigned letters. Sometimes they contain money and orders. Sometimes, too, letters are received in which the name of the town is left out and the postmark is blurred. We cannot fill orders unless we know the name and address of the buyer. The easiest way for you is to use our order sheet, filling in the blanks.

**MARKET-GARDENERS** are requested to send us a list of the vegetable seeds they intend purchasing. We shall be glad to submit low prices on them. Market-gardeners who purchase seed in large quantities are entitled to a reduction in accordance with the quantity bought. Write us fully and we shall be very glad to reply and give prices.

**Our Guarantee On Nursery Stock** All goods are guaranteed to reach you in good condition; mistakes, if made, will be promptly rectified. Accept shipment, examine and count on receipt and notify us at once should there be any errors, and the carrier as well, of any damaged stock. This guarantee not good unless above requirements are complied with. We do not guarantee continued growth. Remember, a tree, shrub or plant is a living organism, as much as a cow, horse or man. It breathes, drinks and feeds, and is liable to attacks of disease and insects. At prices we sell, it is impossible for us to guarantee growth or to be responsible for stock after delivery to our customers in good condition.

### GUARANTEE

Seeds of the best quality are apt to fail through improper treatment by sowing the seed too deep or too shallow, in too wet or too dry soil. They differ greatly as to the temperature required for germination. Some will germinate rapidly at a certain temperature, while others, if sown under the same conditions, are apt to decay, and for all these reasons it is impractical to guarantee seeds. I give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter, of any seeds, bulbs or plants sent out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

J. J. BUTZER.

Butzer's List of  
Select Strains of

## VEGETABLE SEEDS

## Notice in Reference to Varieties

Modern varieties of vegetables are in a great many cases selections and highly improved strains of older and inferior types. These improved strains are stable to a certain degree only, and considerable care is entailed, in the growing of high-grade seeds, to keep these types up to present standard and to improve on them.

We would point out, therefore, that under conditions of soil and season not altogether favorable, varieties may vary from the descriptions in these pages, especially as regards earliness or lateness of season, type and keeping quality.

The descriptions are intended to serve as a guide only, in the selection of sorts likely to prove most suitable for purposes required.

COLLECTION  
No. 1

Catalog Price 95c  
Sent Postpaid  
for 50c

The amateur gardener, not familiar with the different varieties, will find this collection a simple

solution of the problem of selection. While the price of this collection is much lower than the regular list, we use only seeds of the highest quality, but being enabled to put them up during leisure time, the saving goes to the buyer. No changes will be made in the assortment.

This Collection Contains One Package Each of the following Delivered to You by Mail Postpaid for ..... 50c

1 Pkt. Beet—Detroit Dark Red	1 Pkt. Swiss Chard—Lucullus
1 " Beans—Burpee's String-less	1 " Turnip—Purple Top White Globe
1 " Carrot—Chantney	1 " Spinach—King of Denmark
1 " Cucumber—Long Green	1 " Parsley—Emerald
1 " Lettuce—New York	1 " Sweet Peas—Spencer Mixed
1 " Peas—Blue Bantam	1 " Aster—Rose City Mixed
1 " Nasturtium—Tall Mixed	
1 " Radish—Crimson Giant	
1 " Radish—Icicle	

15 Full Size Packages  
all for 50c, Postpaid

For BUTZER'S "ROSE CITY" Sweet Pea Collection, See Page 53

# ASPARAGUS

No vegetable is more healthful or more palatable than the tender asparagus that appears on the table very early in the spring.

Every home garden should have a bed about ten by twenty feet, planting about one hundred roots. This would furnish enough tips from day to day to supply the family table.

Set the rows two feet apart instead of four as for field culture, and one foot apart in the row.

## Culture

Drill the seed thinly in rows fifteen inches apart during March or April. Thin out to two inches apart in order to have strong plants.

Exercise great care in preparing a field because it will last many years.

Transplant during February setting the roots two feet apart, in furrows six feet apart. Carefully spread out to avoid matting. The furrows should be ten or twelve inches deep and run North and South in order to get the sun on both sides of the rows. Cover the roots about three inches and as the plant grows throw the soil toward the plant. Each year when the berries are red, cut the plants close to the ground and burn, then spray the entire field with sulphur, in order to destroy any germs of mildew, red spider or rust that may be there. Keep a mulch over the row with a harrow, but cultivate more deeply between the rows. Use stable manure liberally and hill up a little higher each year. Irrigate freely during the growing period. Three pounds of seed is sufficient to plant an acre.

Use one year old roots; do not cut them back. When planting see that the roots are well spread out so that the soil will touch every part. If this is not done the plant cannot thrive.

### Mary Washington

The most vigorous of the Washington rust-resistant strains developed by the U. S. Department of Agriculture. Its shoots are extra large and of a dark green color shaded with dark purple at tips. Its quality is excellent, surpassing all other varieties for both home and market gardens.

Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50

### Argenteuil

A popular French Asparagus of great merit; larger and lighter in color and said to be superior to Palmetto, of vigorous, even growth; very early and free from disease.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

### Asparagus Roots

(WASHINGTON AND PALMETTO)

ONE-YEAR-OLD PLANTS—Postpaid 30c doz.—50c per 50—\$1.00 per 100 by express or freight—\$7.00 per 1,000



### Asparagus Knife

The best knife for cutting Asparagus. Each 50c, postpd

## BEANS DWARF OR BUSH GREEN PODDED

**Culture**—No crop responds more readily to good soil and cultivation than beans. A light, rich, well-drained loam which was manured for the previous crop, is desirable. If too rank manure is used it is apt to make the plant run too much to vine. Beans are extremely sensitive to both cold and wet, and it is useless to plant them before the ground has become dry and warm. The largest returns will result from planting in drills from two to three feet apart and leaving the plants two to six inches apart in the row. Up to the time of blossoming they should have frequent shallow cultivation, but any mutilation of the roots by cultivation after the plants come into bloom is likely to cause the blossoms to blast and so cut off the crop. The cultivation of beans should always be very shallow and it is useless to expect a crop from a field so poorly prepared.

Varieties should be selected so as to give a succession both of string and green shelled beans. The wax podded varieties will degenerate into a mixture of green wax podded plants unless there is constant attention given to the removing of any green podded plants which may appear in the seed crop, and the constant selection of plants of the highest type for stock seed. Hence it is especially important to use seed from reliable sources only.

### BURPEE'S STRINGLESS GREEN POD

The Best Green Podded Bush Bean for the Northwest, should be in every garden

This famous bean is absolutely unequalled! It combines unusual hardness, extreme earliness, and wonderful productiveness with pods of handsome appearance and finest quality. Extra early plantings may be made to produce the earliest crop, and even with later plantings Burpee's "Stringless" is always the quickest to produce pods. By repeated plantings pods may be had in constant succession from Spring until cut off by heavy frosts in the Fall. Combined with the extra hardness and early maturity, the pods are the finest in quality, of a rich green, very round and straight, five inches long, solidly meaty and broad—deeply saddle-backed, caused by the rounded swell of the fleshy sides. The pods are tender, brittle, and of finest flavor, always entirely stringless, even when fully matured. In a word, all planters now agree that Burpee's is absolutely unequalled.

Per pkt. 10c; lb. 25c; 5 lbs. \$1.00, postpaid

### DWARF HORTICULTURAL

One of the best dwarf sorts for green shell beans for the home garden and market and can be used early as a green podded snap bean. The plants are very productive, compact and upright, with large leaves. The mature pods are about five to five and one-half inches in length, broad and thick curved, with splashes of bright red on a yellowish ground. They become fit for use as green shelled beans early and in this condition the beans are very large, easily shelled and are about equal to the Lima in quality. Seed large, oval, plump, pale buff splashed with deep red.

Large pkt. 10c; lb. 25c, postpaid

# BEANS DWARF OR BUSH GREEN PODDED

## EXTRA EARLY RED VALENTINE

Next to Burpee's Stringless, this is the most popular of all green-podded bush beans. In this improved strain the pods are very fleshy, round and saddle-backed, with only slight strings. Bushes grow uniformly about fifteen inches in height... Per pkt. 10c; lb. 30c, postpaid

## IMPROVED REFUGEE, or 1000 to 1

Our strain is extra fine. True bush growth, fifteen inches in height, branching freely. The pods are nearly round, pale green, five inches long, tapering to a slender point; quite solidly fleshy, brittle, and mild in flavor, but with slight strings. Rather later than the other green-podded sorts, but extremely prolific. Very popular with canners on account of the handsome appearance of the pods when picked while quite young. Per pkt. 10c; lb. 30c, postpaid

## BROAD WINDSOR, or ENGLISH BROAD

This is entirely distinct from the common or French bean. The large, coarse pods are borne on stout plants which are coarser, more erect and less branched than the French. Per pkt. 10c; lb. 25c, postpaid

## CANADIAN WONDER

This splendid Bush Bean is the largest, most prolific of the green-podded sorts, and is entirely stringless in its early development. Come a little later than the new Stringless Green Pod, but continues in bearing throughout the season, and is excellent in shelled green.

Per pkt. 10c; lb. 30c, postpaid

## EARLY STRINGLESS REFUGEE

An improved stringless strain. Very hardy and extremely productive. Pods round and straight, tender, brittle, absolutely stringless and of finest quality: medium early. Great improvement over Refugee or 1,000 to 1. Excellent home or market variety as a "snap." N unsurpassed for picking or canning. Second early.

Per pkt. 10c; lb. 30c, postpaid

## CASTOR BEAN

Used for medicinal purposes and by some claimed to keep moles away. Per pkt. 10c, postpaid

# BEANS DWARF OR BUSH, YELLOW OR WAX PODDED

## BRITTLE WAX

Brittle Wax is most attractive, of superb quality, and conceded the "Best of All." The bushes are remarkably hardy and very prolific. The pods are handsome, round, extremely fleshy, and always stringless and tender. They measure about 7 inches in length and are slightly curved. Burpee's Brittle Wax has made a record everywhere with its superb quality, extreme earliness, and great productiveness.

Pkt. 10c; lb. 25c, postpaid

## DAVIS KIDNEY WAX

The handsomest of all the early Wax Beans. The pods are long (seven inches) straight, very uniform and clear waxy white. The vines are vigorous, very prolific and fairly rust resistant. We are constantly improving the variety in this respect, using only the seed from unaffected vines. The dry beans are kidney-shaped, clear white and excellent to use as a Navy Bean for baking. For snap beans in the home garden they should be used while young, before they become stringy. The best market garden wax bean.

Per pkt. 10c, lb. 25c, 5 lbs., \$1.00, postpaid

## PENCIL POD BLACK WAX

One of the best round pod wax beans, both for home use and market. Bushy growth, about fifteen inches high, heavy foliage. Pods 6 to 7 inches long, round as a pencil, clear yellow, very brittle and stringless, rich mild flavor. An early sure cropper of the finest quality.

Per pkt. 10c; lb. 25c, postpaid

## PROLIFIC BLACK WAX

The earliest wax variety. Pods clear, light yellow, round, fleshy, tender, stringless and remain in fit condition for some time. A heavy yielder that we can recommend.

Large pkt. 10c; lb. 25c, pospaid

## REFUGEE WAX

This is a favorite because of its hardy growth and enormous yield of tender, round stringless pods of excellent flavor. Plant from April until September.

Pkt. 10c; lb. 25c, postpaid

## IMPROVED GOLDEN WAX

Pods rather flat, but of good quality; four inches in length, half an inch broad, of light golden yellow; quite brittle, with only slight strings when young. Plants stiffly erect, bearing a large crop of fine pods held well above the soil.

Per pkt. 10c; lb. 25c, postpaid

## BUSH LIMA BEANS

**Culture**—Select land that is especially warm, rich and well supplied with vegetable fibre or humus. Plant as soon as the soil has become warm in the spring. Make the rows 2 feet apart and give to each plant 6 inches space in the row. A top-dressing of poultry manure, ashes, or some good fertilizer or compost around the plants will be of much benefit in hastening maturity and increasing the yield.

## BURPEE'S BUSH LIMA

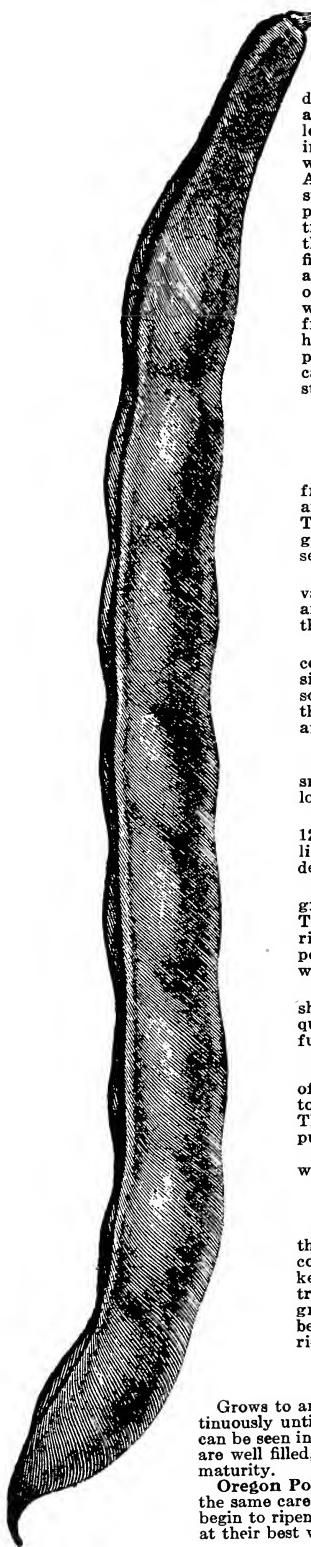
Comes absolutely true from seed. The bushes grow eighteen to twenty inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush from two to three feet in diameter. It is an immense yielder, the handsome large pods being well filled with very large beans, identical in size and luscious flavor with the well-known large Pole Limas.

Per pkt. 10c; lb. 30c, postpaid

## FORDHOOK BUSH LIMA BEAN

The only stiffly erect bush form of the popular "Potato" Lima! Both pods and beans are twice the size of Dreer's Bush Lima and more than half again as large as the Challenger Pole Lima. Is fully a third heavier cropper and therefore is bound to entirely displace the Kumerle (Dreer's or Thorburn's) Bush Lima. In season it is from four to six days earlier.

Per pkt. 15c; lb. 35c, postpaid



# BEANS—Pole or Running

**Culture**—Pole Beans are even more sensitive to cold and wet as well as to droughts and hot winds than the dwarf varieties, but are of superior quality and productiveness. After settled warm weather set poles four to eight feet long and slanting slightly toward the north, in rows four feet apart and extending north and south, the poles being three feet apart in the row. Set in this way, the vines climb better and the pods are straighter and more easily seen. Around each stake plant five to eight beans two inches deep, and when well started thin to four plants. It is a natural habit of all vines to climb around a pole always in one direction, and they will not do well if an attempt is made to train them to run in the opposite direction. Another plan is to plant in rows thickly enough so that there will be one plant to eight or ten inches. Set posts five feet high firmly at each end of the rows and drive stakes made of 2x2 lumber at intervals of about sixteen feet along the rows. Stretch a wire, size No. 10 or 12, between the posts along each row, and fasten it to the tops of the stakes with wire staples; run a light wire or twine along the bottom about six inches from the ground, fastening likewise to the posts and stakes. Between these two horizontal wires stretch a wire or twine perpendicularly wherever there is a plant; the vines will run up these until they reach the top wire, when they will care for themselves. Another way is to omit the bottom wire and stick small stakes two to six inches in the soil and fasten to top wire.

## GREEN PODDED VARIETIES

### Kentucky Wonder is the best Pole Bean for the West

Often sold as Asparagus Beans

**Old Homestead, or "Kentucky Wonder"**—See natural size of pod, engraved from a photograph. The pods seven to nine inches long, are so fleshy that they are greater in width than in breadth, being deeply creased or "saddle-backed". They are solidly meaty, stringless when young, and of finest quality. If pods are gathered as they mature, the vines will continue to bear to the end of the season.

Per pkt. 10c; lb. 25c; 5 lbs. \$1.00, postpaid

**Chinese Yard-Long (Pole Beans)**—Brown seed, an attractive and curious variety. The pods often grow to be nearly a yard long. The whole pod and beans are crisp, tender and with a delicious asparagus flavor, rivaling almost any of the little podded beans when cooked.

Pkt. 10c

**Burger's Green-Pod Stringless**—This is earlier than Old Homestead and covers a longer season of productiveness. The pods, borne in clusters, average six to eight inches in length, are uniformly straight, of a rich dark green, and so meaty as to be really "saddle-backed." The pods are as entirely stringless as the popular Burpee's Stringless Green-Pod Bush Bean; they are equally tender and of similar sweet, mild flavor. The dry beans are of a pearly whiteness.

Per pkt. 15c; lb. 35c, postpaid

**Horticultural, Cranberry or Wren's Egg**—A popular old variety for either snapshots or dry shell beans, especially adapted for short seasons and cool locations.

Per pkt. 10c; lb. 30c, postpaid

**Oregon Giant Greenpod (Dickenson's Yount)**—The large fleshy pods 10 to 12 inches in length are free from all stringiness and are tender, crisp and delicious. The size, splendid quality and rich flavor make this one of the most desirable beans for home gardens and for canning.

Per pkt. 15c; lb. 40c

**"Lazy Wife's"**—The pods, of medium dark green color, are produced in great abundance, and measure from four and a half to six inches in length. They are broad and thick; fleshy and entirely stringless. The pods retain their rich, tender, and stringless qualities until nearly ripe, and at all stages are peculiarly luscious. Each pod contains from six to eight round, white beans, which make excellent winter shell beans.

Per pkt. 10c; lb. 30c, postpaid

**Scarlet Runner**—In northern locations where the summers are cool and short, this takes the place of the Large Lima Beans. Plants are of strong quick growth, bearing large sprays of bright scarlet pea-like flowers. When fully ripened, the dry beans are of bright scarlet, heavily blottedched with purple.

Per pkt. 10c; lb. 30c, postpaid

**White Creaseback**—A popular early green podded pole bean for snapshots; of rapid growth and very productive. Pods grow in clusters and are from five to six inches in length, perfectly round, being deeply creased or "saddle-backed." They are solidly fleshy, entirely stringless, and of fine quality. The dry seed is pure white and excellent for winter use.

Per pkt. 10c; lb. 30c, postpaid

**White Dutch Case Knife**—Bears large flat pods early in the season. Being white-seeded, it is excellent to grow dry shell beans for winter.

Per pkt. 10c; lb. 30c, postpaid

## WAX POD VARIETIES

**Kentucky Wonder Wax Bean**—In saying that this bean is even more prolific than its green podded namesake, we do not overstep the bounds of truth. It commences to bear when scarcely higher than the average bush variety, and keeps on producing until killed by frost. In some comparatively frostless districts it has continued in bearing from June to December. It is a rampant grower, one vine filling a pole with a mass of vines densely loaded with luscious beans. They are solidly meaty, entirely stringless, and when cooked, deliciously rich and buttery. The seed is brown.

Price 10c per pkt; 35c per lb., postpaid

## OREGON POLE LIMA BEANS

Grows to an average of about five feet, is a strong, thrifty vine and very prolific, bearing continuously until frost, the blossoms bursting from the top shoots in long panicles, while the pods can be seen in every stage of development, to the matured beans at the bottom of the vine. Pods are well filled, having three to five large beans of the finest quality. Gather any time after full maturity.

**Oregon Pole Lima** can be planted in any garden soil as early as April or late as July. Give the same care and culture as other Beans, and are ready to use when the pods are filled and first begin to ripen. It is not necessary that they should dry on the vines, except for seed. They are at their best when the full green pods begin to turn yellow.

Per pkt. 10c; lb. 30c, postpaid

## GARDEN BEETS

**Culture**—The best results are obtained on a deep rich sandy loam. If wanted very early, sow such sorts as Crosby's Egyptian or Detroit Dark red in hotbeds and transplant, cutting off the outer leaves. For general crop, sow in freshly prepared soil as soon as the ground will permit, in rows eighteen inches apart covering about an inch deep and pressing the soil firmly over the seed. When the plants are well established thin out to four inches apart in the row. For winter use the turnip varieties may be sown in June, so as to mature late in the season; the roots are stored in a cellar and covered with sand or sandy soil to prevent wilting; or they may be kept outdoors in pits such as are used for apples and potatoes. One or two ounces, or single packets of two or three sorts will give a good supply for a large family.

**Detroit Dark Red**—Receives nothing but praise everywhere—it is rather astounding how, despite the many new beets introduced from time to time, that the old Reliable Detroit gains in favor instead of waning.

The Detroit is one of the best of the dark red turnip beets for main crop. See illustration. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c, postpaid.

**Bastain's Half-Long Blood**—The roots are shaped like an olive, of large size and have dark red flesh which retains its tenderness until late in the season.

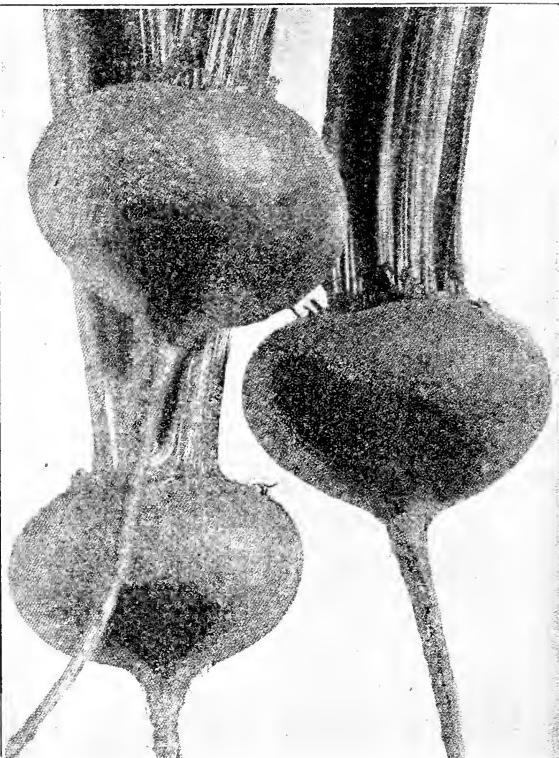
Per pkt. 5c; oz. 15c,  $\frac{1}{4}$  lb. 50c, postpaid

**Extra Early Egyptian**—Grows extra quickly, producing flat smooth turnip roots averaging two inches in diameter. Per pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c, postpaid.

**Crosby's Egyptian**—Roots are smooth and round in form. They are of finer quality, combined with the same extra maturity. Per pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 30c, per lb. \$1.00, postpaid.

**Long Smooth Blood Red**—Roots long and slender, penetrating the soil deeply, but seldom growing more than two inches in diameter. Rather late in maturing, but are excellent keepers when stored for winter use.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c, postpaid



**DETROIT DARK RED—THE BEET FOR THE NORTHWEST**



**Danish Sludstrup**

## Mangel Wurzels or Stock Beets

**Danish Sludstrup**—The Danish Government encourages the growing of root crops by offering certificates of merit to growers who select and produce sorts which are of distinctive value. Sludstrup is considered the best of all Mangels, having been awarded first-class certificate. In color it is reddish yellow and of a distinct type. It contains the largest per cent of nutrient found in any sort. It is very hardy, grows well above ground and is easily pulled.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 50c

**Giant Half-Sugar**—This magnificent Sugar Beet, while giving nearly as large a yield of easily grown and harvested roots as a crop of Mangels, supplies a food of very much higher nutritive value, the roots for feeding purposes being really more valuable, pound for pound, than those of the very best strains of Sugar Beet, and the yield under equally favorable conditions is more than double. The roots grow partly out of the ground and because of this and their shape the crop can be harvested and stored at less expense than any other root crop. We are certain that every one who plants this variety and grows it with care will be much pleased. Every farmer should try it.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 50c, postpaid

**Golden Tankard**—A smooth yellow-fleshed mangel, the roots are of large diameter, tapering quickly at the bottom, which is quite broad, with only a small tap-root. It grows largely above the soil and is easily harvested. It yields an enormous bulk on good land, and can be grown closely in rows. This is decidedly the best of all these four mangels for stock feeding.

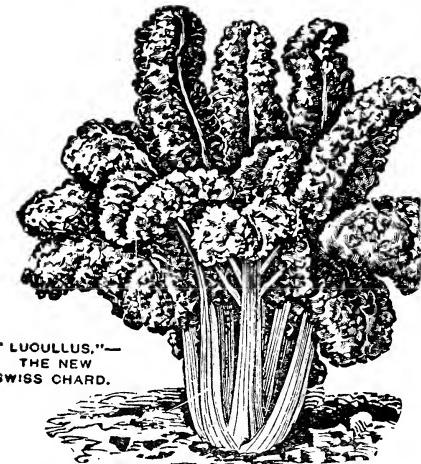
Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid

**Golden Giaft, or Yellow Leviathan**—Fine large roots, growing half above the surface. Skin a rich golden yellow; flesh white, firm and sweet. A fine root, easily lifted, producing enormous crops, and is an excellent keeper.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid

**Mammoth Long Red**—The largest of all the Mangels and the heaviest copper. Skin is red; flesh white, zoned with red. This variety produces a larger amount of good feed than any other Beet, and is recommended as superior to all others.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid



## SWISS CHARD OR "SPINACH BEETS"

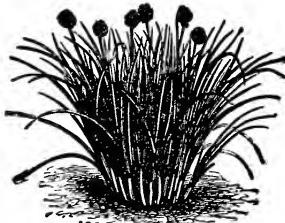
**Lucullus**—The plants grow to a height of two to two and one-half feet. The stalks are as thick and broad as those of rhubarb, being one and one-half inches broad, heavily ribbed and from ten to twelve inches long below the leaf. These stalks are delicious when cooked and served in the same manner as asparagus.

In the old type of Swiss Chard the leaf portion is smooth, broad and rounded at the upper end; in the new Lucullus the leaves are larger and sharply pointed at the top, while the texture is heavily crumpled or "savoyed", more crisply tender and of finer flavor. The leafy portion of the foliage is cooked and served in the same manner as spinach. The leaves and stalks served as separate vegetables afford two distinct dishes from the same plant at one time.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

**Large-Ribbed White**—This variety does not make edible roots like the regular garden beets, but is grown for the broad white leaf-stalks, which are bunched and cooked in the same manner as asparagus, and make a delicious summer vegetable. The young leaves may be gathered also and cooked like spinach.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c

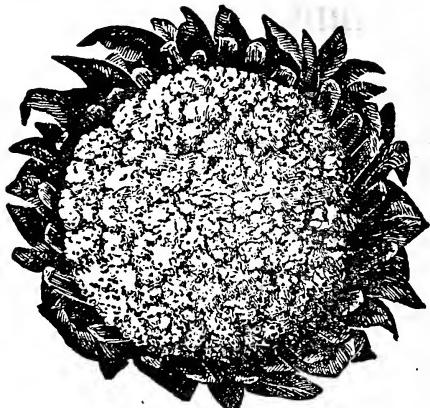


## CHIVES—Schnittlauch

Chives are perfectly hardy perennial plants of the onion type, and are grown exclusively for their small leaves, which are produced freely very early in the Spring, for giving a mild onion flavor to various dishes. They are used especially in flavoring the small German sausages. When planted in small clumps in any common garden soil, they will grow rapidly and in time increase so as to render division necessary. The tops appear early in the Spring, and can be shorn off close to the ground as needed. If not allowed to flower, they will produce much longer.

Per bunch, postpaid, 15c

Tobacco Dust will protect your vegetables from leaf-eating insects



## BROCCOLI

Should be treated the same as cauliflower, which it resembles. In fact, it is practically a cauliflower, but grows larger and taller and is harder and easier to grow. It requires two months more time to mature, which it does best in cool weather. Plant and cultivate the same as cabbage or kale and give plenty of water.

**St. Valentine**—The finest of all Broccoli. Imported from England. This grand new strain introduced from England is a sure header of immense size and finest quality, and is ready for market in February. The large, solid, handsome, white heads remain in good condition longer than other varieties.

Per pkt. 10c; oz. \$1.00

**Large White French**—A valuable variety with large, white heads, firm and of good flavor. Pkt. 5c; oz. 50c



## CORN SALAD (Feldsalat)

**Vetticost, or Lamb's Lettuce**—A delicious salad. The best variety cultivated. The proper time for sowing is in the Fall, but sown early in Spring, in rows nine to twelve inches apart, it is fit for use in from six to eight weeks. Cover with hay or straw to protect through the Winter. One ounce of seed to 15 square feet.

Per pkt. 5c; oz. 15c, postpaid

## BRUSSELS SPROUTS

The plants are very hardy and grow from 2 to 3 feet high, bearing a large mass of leaves at the top. The sides of the main stem are covered with three or four dozen small cabbage heads, which are broken off and cooked the same as cabbage. The sprouts mature in succession. Sow early so as to have well-grown plants by fall. Cultivate the same as for cabbage.

**Burpee's Danish-Prize**—A very fine strain. The plants are of strong robust growth. The stalks are large, thick and close-joined, so that the sprouts set thickly on the stalk. The sprouts develop for nearly the entire height of the stalk about the same time—consequently a very large crop can be gathered. Even the sprouts formed at the base of the stalk are tightly folded; they are quite as fine and solid as those higher up.

Per pkt. 10c;  $\frac{1}{2}$  oz. 20c

**Long Island Improved**—The finest strain of "Sprouts" grown. We offer the choicest Long Island grown seed.

Per pkt. 10c; oz. 35c

**Perfection**—The plants grow about two feet in height and the stems are thickly set with the sprouts which grow one or two inches in diameter.

Per pkt. 5c; oz. 25c, postpaid

# CABBAGE

**Culture**—The requisites for complete success are: First, good seed; in this crop the quality of the seed used is of the greatest importance; no satisfactory results can possibly be obtained when poor seed is planted. Second, rich, well prepared ground. A heavy, moist and rich loam is most suitable. Third, frequent and thorough cultivation. The ground should be highly manured and worked deep. Cabbage is grown all over the country and specific directions regarding the time and methods of planting applicable to all localities cannot be given. In general, north of the 40th parallel the early sorts should be sown very early in hotbeds, hardened off by gradually exposing them to the night air and transplanted as early as the ground is in good condition, setting eighteen to thirty-six inches apart, according to size of variety. South of the 40th parallel, sow about the middle of September, or later, according to latitude, transplanting into cold frames if necessary to keep through winter and setting in open ground as early as possible in the spring.

The late autumn and winter varieties may be sown from the middle to the last of spring and transplanted when four to six inches high. If the weather and soil is dry, the late sowing should be shaded and watered in order to hasten germination, but it is important that the plants should not be shaded or crowded in the seed bed, or they will run up weak and slender and will not endure transplanting well.

## First Early Sorts



EARLY JERSEY WAKEFIELD

**Early Jersey Wakefield**—The best first-early oblong-headed cabbage. The heads are uniformly hard and solid. They are pyramidal in form, generally pointed at the end, with but few outside leaves. The outer leaves are unusually thick and heavy, and it is thereby enabled to stand more cold weather without injury when carried through the winter.

Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50, postpaid

**Extra Early Express**—About ten days earlier than Early Wakefield; heads small, heart-shaped and very solid; having but few outer leaves plants can be set very close. Per pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00, postpaid

**Charleston Large Wakefield**—About one week later than Early Jersey Wakefield, but the conical heads are fully one-half larger.

Per pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00; per lb. \$3.50, postpaid

**All Head Early (The Faultless)**—As early as most of the early summer cabbages; the deep, flat heads are remarkably solid and uniform in color as well as in shape and size; makes a fine winter cabbage if sown late. Splendid sort for kraut making.

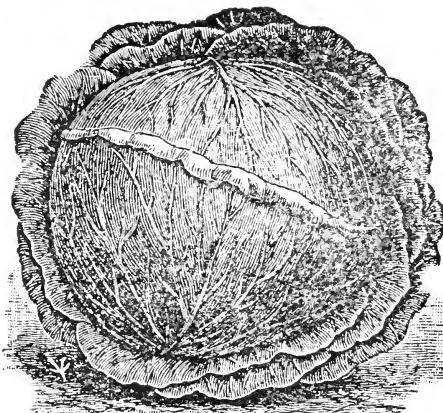
Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c, postpaid

**Early Flat Dutch**—Earlier and heads somewhat smaller than Late Flat Dutch; a good short stemmed variety.

Pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00

**Baby Head**—Of unusual merit. The beautiful little round heads are "solid as a rock" and weigh from three to six pounds, just a right size for family use.

Pkt. 10c; oz. 50c



## Copenhagen Market

Will Mature a Marketable Head  
from Every Plant

**Copenhagen Market**—It is undoubtedly without a rival as the finest large round-headed early Cabbage in cultivation. The type is thoroughly fixed, the heads maturing all at the same time—(this being a great consideration to Market Gardeners, entailing less labor in harvesting the crop and allows the ground to be cleared at the first cutting). The heads average about ten pounds each in weight, and very solid, with small core and of fine quality. It matures as early as Charleston Wakefield and will give a much heavier yield per acre than that popular variety. The plant is short-stemmed, the heads being produced almost on the ground level. The leaves are light green, rather small saucer-shaped, and always tightly folded. The plants, therefore, can be set closer than is usual with varieties of similar size.

Per pkt. 5c; oz. 25c, postpaid;  $\frac{1}{4}$  lb. 75c; per lb. \$2.50

**Glory of Enkhuizen**—Excellent medium early, short-stemmed variety, maturing ten days earlier than Danish Round Head. Heads large, round, very solid, with few outer leaves. One of the most satisfactory for kraut making.

Per pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. 90c

**Golden Acre**—An extra early selection of the Copenhagen type, and the earliest of the round headed cabbages, maturing with Jersey Wakefield. Plant small, dwarf and compact, with few outer leaves; heads of medium size, round as a ball, hard, solid and very uniform.

Per pkt. 10c; 1 oz. 40c, postpaid

**Early Winnstadt**—This suffers less from insects than any other early cabbage. The heads are of the same size as the Jersey Wakefield.

Per pkt. 5c; oz. 25c, postpaid

## RED CABBAGE

Red Cabbage may be used in ways similar to ordinary Cabbage, or may be prepared in various special ways. Its red color makes it particularly desirable for cole slaw.

## DANISH STONEHEAD OR ROUND RED

**Danish Stonehead or Round Red**—This splendid novelty is a recent introduction. It produces round or ball shaped heads of great solidity and unusually dark purplish color, and this rich coloring extends to the center of the head, showing only a small portion of white when cutting across the veins and tissue. The plants are of strong, compact growth, producing heads uniform in size and shape, from 6 to 8 inches in diameter. It is the best keeper of any of the Red Cabbages. Most desirable for the housewife in slicing for slaws, salads, etc.

Per pkt. 10c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.50, postpaid

**Mammoth Rock Red**—While late in maturing, this is the largest heading of all deep red varieties. In good soil the heads will average ten pounds. Per pkt. 5c; oz. 25c

# LATE or WINTER CABBAGE

**Danish Ballhead**—Our seed is absolutely unequalled! It is esteemed for winter use because of the great solidity and excellent keeping qualities of the heads. From repeated trials, as well as from the experience of many customers purchasing our original Danish-grown seed, we know that this selected strain surpasses in even growth and heading, as well as in uniform size and solidity of heads, any other stock of "so-called Hollander Cabbage." The magnificent heads are nearly round in form, very hard and solid; they keep in finest condition, when buried through the winter, coming out solid in spring.

Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50

**Danish Roundhead**—The heads average larger in size than those of the Ballhead, maturing about two weeks earlier, and are set on shorter stalks. They are extremely hard and solid, with interior leaves blanched to the purest whiteness; sweet flavor and crisp tender texture.

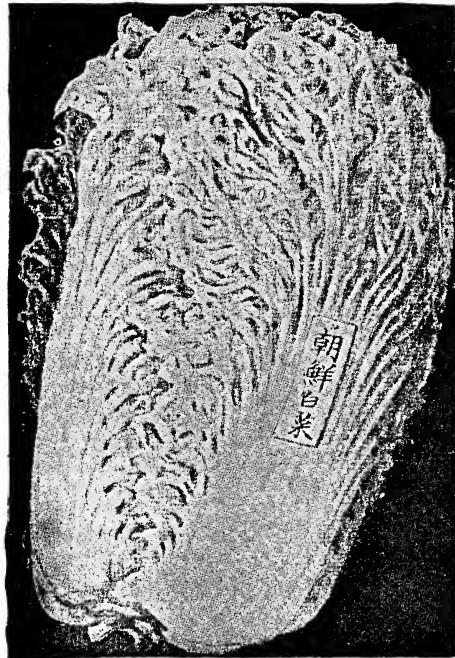
Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50

**Burpee's Surehead Cabbage**—This famous cabbage was first introduced years ago. It produces large round flattened heads, of the Flat Dutch type, and is remarkable for its certainty to head.

Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.00, postpaid

**Premium Flat Dutch**—An improved strain of the old Large Flat Dutch type. Highly esteemed.

Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50



"PEKING" "PE-TSAI"

## CHICORY

**Large-Rooted or Coffee**—Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; per lb. 65c.

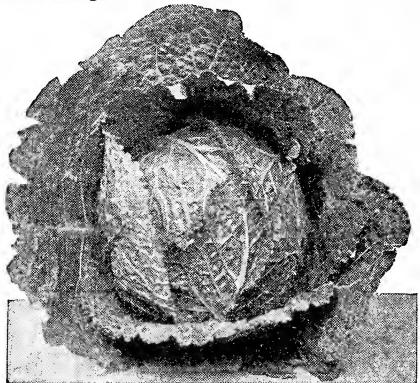
**Witloof.** (French Endive.) Seed sown in the spring produces long, thick roots by November. To force for use the roots are dug in the fall, trimming off the leaves an inch above the crown. Trench in a warm, dark place, covering with six or eight inches of soil and a top layer of fresh manure. The blanched head of leaves thus obtained resemble Cos lettuce and makes a delicious salad.

Per pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.00

## SAVOY CABBAGE

### or CURLED LEAF

Characterized by dark green, heavily crimped, curled, or savoyed leaves. The flavor is far superior to other sorts, especially after being touched by frost. In demand as a Winter Cabbage.



**Perfection Drumhead Savoy Wirsing**—This is the hardest heading and best all-around Savoy. Plants are of strong growth, having only a moderate amount of outer foliage growing closely about the large solid round heads. Heads beautifully blanched and of the finest flavor.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00

## CHINESE CABBAGE

**"Peking" (genuine "Pe-Tsai")**—This grand variety is similar to the Chokurei in general appearance, but is superior to it in every way. The plant is of the same size, but the head proper is much larger and compact. The interior blanches creamy-white, crisp and delicious, and of that desirable rich celery flavor. It produces successfully throughout the year and is considered one of the best late fall and winter Pe-Tsai. It is a good keeper and shipper and its attractive appearance and fine quality make it one of the best sellers. We can say without exaggeration that this is the finest Pe-Tsai in existence today. Whether for medium early, main crop or late use, it has no equal, and is so finely bred and so true to type that in a field of several acres every head appears alike.

Per pkt. 10c; oz. 50c; 4 ozs., \$1.75; lb., \$6.00, postpaid

## WONG BOK

### Chinese Cabbage

This Chinese Cabbage is becoming more popular each year. While it has been cultivated in China for years, it is comparatively unknown in many markets. Last season there was more than usual displayed on our "Public Market."

Wong Bok produces a beautiful, crisp, blanched tall or long head, resembling a giant Cos Lettuce. As a salad it rivals the finest lettuce. Delicious sliced as cold-slaw. Boiled or steamed it makes delightful greens, more sprouts. Don't plant too early, grow it as a fall vegetable.

Plant like late cabbage, about 15 inches apart, in rows. Does its best in cool, moist weather. Will last until freezing weather.

Per pkt. 5c; oz. 35c; 4 oz. \$1.00

## CRESS

**Fine Curled Peppergrass**—Quick growing, finely cut and feathery, like a good parsley; growth dwarf and compact; ornamental, crisp and pungent; very refreshing. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 55c, postpaid

**Water Cress**—Highly esteemed as a salad during the Spring and Fall, also used as a garnish for meats during the Winter. Seed may be started readily in pans or boxes of very moist earth, and the young plants transplanted to shallow water.

Per pkt. 10c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; per lb. \$3.50

# CAULIFLOWER

**Cultivation**—The main thing in growing good Cauliflowers is to rush them on quickly, and never allow them to be checked in their growth; in dry weather they should be copiously watered, especially if just planted out. The soil should be deeply trenched and well-dressed with stable manure, and occasional dressings of liquid manure during the growing season will materially increase the crop. Sow in seed beds, and, when large enough, transplant in rows two feet apart and eighteen inches between the plants. Hill up between the rows, and keep the ground well cultivated. Summer and autumn are the best seasons to sow. The later varieties are very much the hardiest, and will often make good heads under circumstances which would cause the early varieties to "button." The early sorts mature in three to four months, the later ones five to eight months.

## KING WHITE

**King White**—A remarkably sure heading early Cauliflower. It is of dwarf habit with short outside leaves and is similar in most respects to Early Snowball, and nearly as early. The heads when ready for market are of medium to large size. The curd is white, exceptionally deep and of finest quality. It will give excellent results either in the home garden or for market use and is superior to most seed sold at higher prices. Where extreme earliness is not the greatest consideration we recommend this strain.

Per pkt. 10c;  $\frac{1}{4}$  oz. 75c; oz. \$2.50

## BURPEE'S NEW "DRY-WEATHER" CAULIFLOWER

Succeeds even where all others fail. Similar to Burpee's Best-Early, it produces equally large, solid, pure white heads, and is only about a week later. It is especially adapted for growing in dry locations where other varieties fail; make the soil quite rich and give thorough cultivation. It is superior to any other excepting only Burpee's Best-Early. By the use of this strain fine cauliflower can be grown in many dry districts where it has been impossible heretofore to raise this luscious vegetable.

Per pkt. 10c;  $\frac{1}{4}$  oz. 75c; oz. \$2.50;  $\frac{1}{4}$  lb. \$7.00

## BURPEE'S BEST-EARLY

**The Earliest and Best Quick-Growing Cauliflower**—This grand strain was first introduced thirty years ago, and has fully maintained all the merits then claimed for it. The plants are of strong growth, with erect, pointed dark green leaves growing closely about the head. It is remarkable both for the extreme earliness and certainty with which the plants produce fine heads. In good soil the heads measure eight to ten inches across; they are of pure snowy white, with very close compact curd of extra fine quality. So extremely solid and deep are the nearly globe-shaped heads that they weigh heavier than other heads of equal size. Market gardeners can plant Burpee's Best-Early Cauliflower for both early and late crops, with full assurance that it is the choicest and most reliable strain that can be procured. Had we space to spare, we could publish many testimonials from experienced growers who are most enthusiastic in stating that this is beyond doubt, all its name implies—"The Best-Early Cauliflower."

Per pkt. 15c; oz. \$3.00;  $\frac{1}{4}$  lb. \$10.00

# CELERY

**Culture**—Sow the seed (which is slow to germinate) in shallow boxes indoors or in a finely prepared seed bed out of doors in straight rows, so that the small plants may be kept free from weeds. See to it that the seed is not covered too deep and that the bed is kept moist, almost wet, until the seed germinates, as plenty of moisture is essential to get a satisfactory growth. The seed will not germinate well if planted in a hot-bed or where subjected to a temperature above 60 Deg. Fr. When the plants are one or two inches high, thin out and transplant so that they may stand three inches apart each way. When they are four inches high, cut off the tops, which will cause the plants to grow stocky.

### CELERIAC or Turnip-Rooted Celery

**Culture**—Sow the seed at the same season and give the same treatment as common celery. Transplant the young plants to moist rich soil, in rows two feet apart and six inches apart in the row. Give thorough culture. As the roots are the edible portion of this vegetable, it is not necessary to earth up or "handle" it. After the roots have attained a diameter of two inches or over, they are fit for use. To keep through winter pack in damp earth or sand and put in the cellar or leave out of doors, covering with earth and straw like beets or carrots.



**GOLDEN  
SELF-BLANCHING**



**Large Smooth Prague**—An improved form of turnip-rooted celery producing large and smooth roots, which are almost round and with very few side roots. Plants vigorous, with large, deep green foliage.  
Pkt. 5c; oz. 20c; 2 oz. 35c;  
 $\frac{1}{4}$  lb. 60c; lb. \$1.75,  
postpaid.

## CELERY

### GOLDEN SELF-BLANCHING

The best of all early "self-blanching" varieties. First introduced in America in 1884, this is decidedly better in quality than the White Plume. It is ready for use nearly as early, blanches as easily, and is larger in size. It is of dwarf compact habit, with thick, solid, heavily ribbed stalks, which blanch easily to a clear waxyen yellow. When grown in rich moist soil, the stalks are numerous, each plant being fully as thick through as the largest of the tall late sorts, and with a large solid heart of beautiful golden-yellow stalks and leaves. Per pkt. 5c; oz. 50c, postpaid

### GOLDEN SELF-BLANCHING

#### French Grown

The stalks are crisp and solid, free from stringiness, and of most delicious flavor. Finest French-grown seed, which is unsurpassed. Per pkt. 15c;  $\frac{1}{2}$  oz. 60c; oz. \$1.20; 2 ozs. \$2.35;  $\frac{1}{4}$  lb. \$3.50; lb. \$11.00.

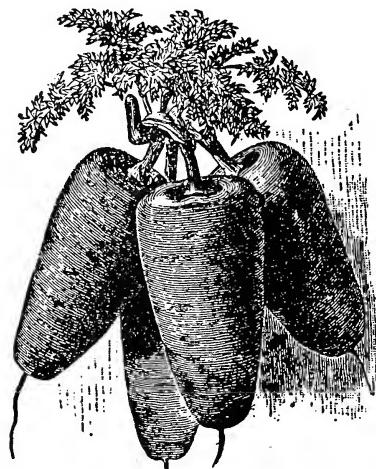
## WHITE PLUME

This is the earliest and most easily blanched, but does not keep well taken from the trenches. The plants grow rapidly and blanch easily during the summer months. Later in the Fall the central stalks and leaves are of pure snowy whiteness, even without earthing up, but stalks should be gathered together and earthed up as in other varieties, so as to produce close attractive bunches.

Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.50, postpaid

# CARROTS

**Culture**—While sandy loam made rich by manuring the previous year is the best soil for the carrot, any good land if thoroughly and deeply worked will produce satisfactory crops. When possible to do so, it is advisable to sow as early in the spring as the ground is fit to work, though good crops may, in this latitude, be grown from sowings as late as June 15, but success from such late planting is uncertain. For table use sow the smaller kinds as early as practicable in rows 16 to 18 inches apart. For field culture, prepare the ground thoroughly and sow in drills 18 to 24 inches apart, using from one and one-half to three pounds of seed to the acre. Cover one-half to one inch deep and see to it that the soil is pressed firmly above the seed. As soon as the plants appear use the cultivator or wheel hoe. Do not let the weeds get a start. Thin the smaller table sorts from six to eight to the foot, and the field varieties from four to six inches apart in the row. For winter use, gather and store like beets or turnips.



## CORELESS CHANTENAY THE SWEETEST CARROT KNOWN

### No Core No Stringiness No Coarseness

A gardener once said, "Give me a coreless Carrot and I will show you one of the sweetest, most delicious vegetables on earth." He was right. A Carrot without a core is a rare treat and nothing is more delicious. This variety is free of the stringy, coarse heart or core that is found in other Carrots. Owing to the fine texture of the red flesh, and its tender, delicate flavor it is called the Sweetest of All Carrots. It grows from six to seven inches in length and is of a beautiful orange red.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

**Chantenay**—This splendid Carrot belongs to the half-long "stump" or blunt-rooted type, but differs from all others of this class by its greater girth, bulk and consequent yield. It averages 6 to 7 inches in length, is broad at the neck, narrowing gradually to the round, blunt base, therefore is easily harvested. The flesh, entirely free from core, is of rich orange-red and of the finest table quality, fine-grained, tender, juicy and delicately flavored.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**Guerande, or Ox Heart**—Tops small for the size of the roots which are comparatively short but often reach a diameter of five inches, terminating abruptly in a small tap root. Flesh bright orange, fine grained and sweet. This variety is especially desirable for soil so hard and stiff that longer rooted sorts would not thrive in it. When young the roots are excellent for table use and when mature are equally good for stock.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**Butzer's Selected Half-long Danvers Carrot**—A handsome half-long, cylindrical, stump-rooted Carrot of good size and of a rich, dark orange color; it grows to a large size, is smooth, and the flesh very close in texture, with very little core and a small tapering tap-root. It is a first-class Carrot for all soils; under good cultivation it has yielded 25 to 30 tons per acre, with the smallest length of root of any now grown, and is more easily harvested than the longer types. Our selected stock gives the best of satisfaction.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**Improved Long Orange**—This is a decided improvement obtained by years of careful selection of the best formed and deepest colored roots of old Long Orange. The most popular of the older sorts for farm use on deep and mellow soil. Roots distinctly larger at crown, shorter, thicker and smoother than those of Long Orange, but so uniform and true to type that the bulk of the crop will be greater. Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid. Write for price on larger quantities.

**Improved Nantes (Coreless)**—A fine quality half-long carrot, almost cylindrical in shape, blunt end and very small tap root. Flesh fine grained, with very little core. The skin is a beautiful orange color and very smooth. Improved Nantes is one of the best table sorts that we list. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

**Early French Forcing**—This is a delicious little table carrot, tender and sweet-flavored, and very early. It is almost globe-shaped.

Per pkt. 5c; oz. 15c; ¼ lb. 40c

**Early Horn**—Short; the best for early market. In shallow ground a good variety to plant, even for main crop.

Per pkt. 5c; oz. 15c; ¼ lb. 40c

## Carrots for Stock Feeding

**Carrots for Stock Feeding**—These can be grown easily in good, loose soil; keep well when stored for Winter use and form an extremely wholesome addition to the Winter rations of stock when fed in conjunction with corn and dry fodder. The rich coloring of the deep orange-colored sorts is esteemed also as imparting a richer coloring to milk and butter during Winter months.

They are grown most easily in land which has been under cultivation the preceding season, and which has been manured heavily and plowed during the previous Fall, though short, well-rotted manure will give excellent results, turned under in the Spring if the surface is finely prepared before sowing the seed. Seed should be sown early, thinly in drills three feet apart using four pounds of seed to the acre. Give thorough cultivation throughout the season, working more deeply as growth advances.

**Improved Short White Mastodon**—The most productive and most easily harvested for stock feeding. The roots grow about eight inches in length, measuring three inches at shoulder and gradually tapering throughout their length. Smooth, white skin, free from small rootlets. Flesh solid, white, crisp, rich and nutritious. We have reports of this variety yielding 20 tons per acre.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**Large White Belgian**—This Carrot grows a third or more of its length above the surface. Roots will average two inches in diameter at the shoulder and a foot or more in length. The diameter is even throughout the entire length, the roots tapering gradually at the base. They are easily pulled in harvesting, and do not have to be dug out, like most long-rooted sorts. Flesh and skin pure white, though the latter is occasionally tinged with green in upper portion growing above the soil.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**Large Yellow Belgian**—This is similar in growth and form to the preceding, but flesh and skin of the portion growing below the soil are of a pale orange coloring. These two varieties have probably been grown more extensively than any others for stock feeding in the past, but are destined to be superseded to a great extent by the large, thick roots of the improved white variety offered above, and the thick, stump-rooted table sorts.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

**STIMUGERM**  
LEGUME INOCULATION

Makes a  
Wonder Garden

**ENDIVE**

**Endive** is one of the best and most wholesome salads for fall and winter use. Sow in shallow drills in April for early use or for late use in June or July. When 2 or 3 inches high, transplant into good ground or thin out to 1 foot apart. When nearly full grown, and before they are fit for the table, they must be blanched. This is done by gathering the leaves together and tying with yarn or bass to exclude the light and air from the inner leaves, which must be done when quite dry, or they will rot.

**Green Curled**—Leaves finely cut or lacinated.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25

**White Curled**—Does not need blanching, the midribs being naturally of a pale golden-yellow, and the finely cut and curled leaves almost white.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50

**Batavian**—Large heads of broad, thick leaves, which can be blanched as a salad or make excellent cooked greens.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50

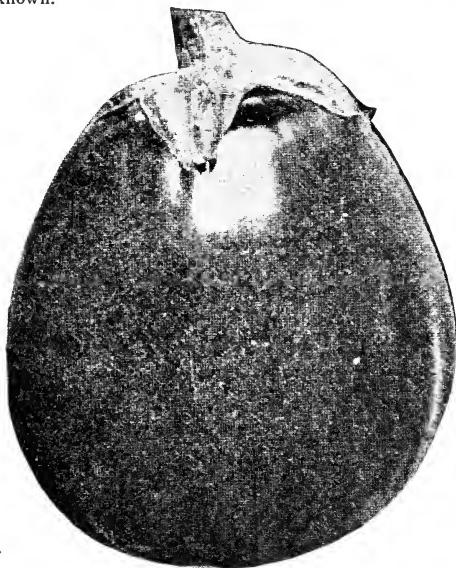
**FRENCH ENDIVE**

**or Witloof Chicory.** French Endive is used principally as a winter salad. Sow the seed in the open ground not later than June. Lift the roots in the fall. When wanted for forcing trim to an even length of 6 inches. Pack upright in a box in rows and a two-inch layer of soil at the bottom. Loosely cover with 6 inches of sand or light earth. After watering thoroughly, place the box near the heater of the cellar and keep moderately moist until the sprouts push through.

Pkt. 10c; oz. 25c; 4 ozs. 80c, postpaid.

**EGG PLANT**

Every garden should have a few Egg Plant plants. These are easily grown and bear a good crop with little attention. Egg Plants, sliced and fried, are delicious and would be much more popular if better known.



**BLACK BEAUTY**

**Black Beauty**—Very early, the fruit being ready for market two weeks before any other variety. Color very fine, being a purplish black. A good variety for a main crop for market. Per pkt. 10c;  $\frac{1}{2}$  oz. 40c; per oz. 70c; 2 ozs. \$1.15;  $\frac{1}{4}$  lb. \$2.00; per lb. \$7.00.

**CHINESE WONDER**

One of Oriental curiosities, the fruit oblong attaining a length of 16 to 25 inches, with beautiful purplish-black color. The skin is very thin and flesh is tender; has very few seeds. Plants are hardy and prolific. Is excellent for pickles, boiled, fried, stewed, etc. Easy culture.

Pkt. 15c;  $\frac{1}{2}$  oz. 80c; oz. \$1.50; 4 ozs. \$5.00, postpaid

**DANDELION**

**Dandelion (Lowenzahn; Dent-de-Lion)**—Cultivated for spring greens, is fast graining flavor. Our thick or cabbage-leaved variety is best; unlike common sorts, almost double usual size.

Pkt. 10c;  $\frac{1}{2}$  oz. 40c; oz. 75c

**DILL**

Resembles Fennel in habit of growth but is not so mild, nor does it produce roots of the same type. The stems and umbels of seeds and flowers are extensively used for flavoring pickles, for it imparts a flavor relished by many.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 35c

**GARDEN COLLECTION No. 1**

The amateur gardener, not familiar with the different kinds, will find this collection a simple solution of the problem of selection. While the prices of collections are much lower than the regular list, we use only seeds of the highest quality, but being enabled to put them up during leisure time, the saving goes to the buyer. No changes will be made in the assortment. Orders can be filled immediately on receipt.

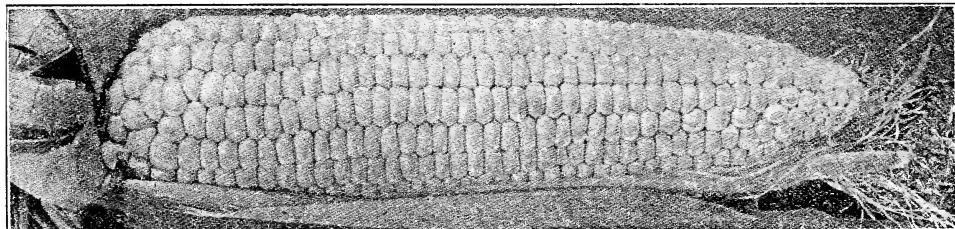
No. 1 Collection Contains One Package Each of the 50¢  
Following Delivered to You by Mail Postpaid for

- 1 Pkt. Beet—Detroit Dark Red
- 1 " Beans—Burpee's Stringless
- 1 " Carrot—Chantney
- 1 " Cucumber—Long Green
- 1 " Lettuce—New York
- 1 " Peas—Blue Bantam
- 1 " Nasturtium—Tall Mixed
- 1 " Radish—Crimson Giant
- 1 " Radish—Icicle
- 1 " Swiss Chard—Lucullus

- 1 Pkt. Turnip—Purple Top White Globe
- 1 " Spinach—King of Denmark
- 1 " Parsley—Emerald
- 1 " Sweet Peas—Spencer Mixed
- 1 " Aster—Rose City Mixed

**15 Full Size Packages  
all for  
50c, Postpaid**

# CORN--Sweet or Table Varieties



## "GOLDEN BANTAM"

**Earliest and Best of All Extreme-Earlies—Most Surpassingly Delicious in Flavor—Most Famous Corn Grown**

**Golden Bantam**—Is becoming each year more firmly fixed in popular favor, because of its extremely early character, vigorous growth and surpassing delicious flavor.

Although the dry grain is entirely free from any flinty glaze, it is exceptionally hard and firm, hence can be planted earlier than any other true sweet corn. The stalks are dwarf and sturdy in habit, growing to a height of four feet; they bear two and three good ears, which are set well above the ground. The ears, five to seven inches in length, have eight rows of broad yellow grains, extending to the extreme rounded tip.

Pkt. 10c; lb. 25c; 5 lbs. \$1.00, postpaid

### GOLDEN CREAM

This sweet corn is of California origin and the result of crossing the Golden Bantam with the Country Gentleman. The Golden Cream resembles the Country Gentleman in appearance, having the same irregular rows and has also the deep-pointed kernel and the slender cob of that variety, otherwise it is entirely distinct, being of dwarf habit in growth, having an ear about the length of the Golden Bantam, and differs from the Country Gentleman in time of maturity, being very early.

Per pkt. 10c; lb. 30c, postpaid

### HOWLING MOB

For the earliest supply of fine, large, handsome ears, having the true sweet or sugary flavor, we feel that we cannot recommend the Howling Mob too strongly, either for home use or to the market gardener having a trade for quality in garden products.

Per pkt. 10c; lb. 30c, postpaid

### STOWELL'S EVERGREEN

**Stowell's Evergreen**—This has long been the leading main-crop variety for home use, market and canning. Our stock is carefully selected, and can be depended upon to produce fine large ears of superior quality. The grains of good size, are long and slender—entirely free from glaze or flintiness. Per pkt. 10c, lb. 25c; 5 lbs. \$1, postpaid

### BLACK MEXICAN

**Black Mexican**—A medium-early variety, growing about six feet in height, ears eight inches long, well filled with eight rows of large rather flat grains, which are a deep bluish purple of superlatively sweet flavor.

Per pkt. 10c; lb. 30c, postpaid

### COUNTRY GENTLEMAN

**Country Gentleman**—Has a small white cob densely covered with irregular rows of deep, splendid white grains of delicious flavor. Ears average 8 to 9 inches in length. The stalks grow about 6 feet high and average three or four ears each.

Per pkt. 10c; lb. 30c, postpaid

### PORLTAND MARKET

An Oregon introduction, a very early, large eared sweet corn and very productive. Its large well-filled ears together with its plump, sweet grains of purest white, make it a most profitable home or market variety. Very popular with our market gardeners.

Per pkt. 10c, lb. 25c; 5 lbs. \$1.00, postpaid

### OREGON EVERGREEN

The flavor and sweetness have not been excelled and the extreme whiteness of the large ears makes it very beautiful and valuable for canning. It is large and the stalks produce more ears than any other variety and have a very heavy husk over the grains, protecting them from insects and keeping the ear fresh a long time after cutting.

Per pkt. 10c; lb. 30c, postpaid

### POP CORN

**Black Beauty**—We believe this is not only the earliest maturing variety in cultivation but it is ready for popping earlier than any other sort. It pops very large and exceptionally white. The kernels are black but this color is not noticeable after popping, when this sort is the largest and most tender of all. The ears are about six inches long, twelve rowed. The kernels are smooth, shallow and are nearly square.

Per pkt. 10c

**White Rice**—A very handsome and prolific white variety. The ears are five to seven inches long. The kernels are long, pointed and somewhat resemble rice. This excellent rather late maturing variety yields heavily and is considered the best pop corn for parching.

Per pkt. 10c

## FIELD CORN

THESE VARIETIES HAVE ALL BEEN GROWN ESPECIALLY FOR SEED. THE SEED IS WELL CURED AND TRUE TO NAME.

**MINNESOTA**  
No. 13  
**IMPROVED LEAMING PRIDE OF THE NORTH PRIDE OF THE WEST CHAMPION WHITE PEARL EVERGREEN SWEET FODDER CORN**

Write and ask us.

### EUREKA ENSILAGE

This variety is a favorite for the silo. But some objection has been expressed, that the stalks are too large to be handled conveniently. This would indicate that it had been grown on very rich soil. It is very stalky and stands up well. The tonnage of silage per acre will average well above 20 and may yield 30 tons. Any claim above this is based upon individual acreage. Per lb. 25c; 10 lbs. \$2.00, postpaid. Write for quantity price.

# CUCUMBER

The Cucumber requires well-enriched soil, and should not be planted until settled warm weather, in this latitude, seldom before the middle of May. Plant the early, small kinds in hills  $3\frac{1}{2}$  to 4 feet apart, the larger varieties 5 to 6 feet. Make the hills broad, use 15 to 20 seeds to the hill, dropping them well apart. Cover with not over an inch of earth, and firm this well with the hoe. If the young plants are attacked by the striped bugs or other insects, dust frequently with air-slacked lime, soot or ashes mixed with road dust, taking care that too much is not used at one time. When all danger from bugs is past, thin to three plants to the hill. Give frequent shallow cultivation as long as vines will permit.

**Arlington White Spine**—The cucumbers are very regular in outline, uniform in size, averaging seven to eight inches in length, straight and of a rich, dark-green color. Flesh white, crisp, and solid, with comparatively few seeds. Vines are of vigorous growth and very productive.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

**Davis Perfect**—Fruits very deep green in color, rather long, averaging ten inches or more in length, white spined, quite slender, symmetrical, tapering slightly at both ends. Flesh is crisp, tender and of good quality. The seed cavity is small. The vines are very vigorous growing and quite productive. Recommended as one of the best sorts for shipping as it retains its attractive dark color for a long time after picking.

Per pkt. 10c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50

**Extra Early Green Prolific, or Boston Pickling**—This is a very prolific variety, largely planted for pickles. The fruits average four to five inches in length when large enough for slicing, and are of excellent quality; but it is chiefly for producing medium-sized pickles that this variety is so highly esteemed. If the fruits are gathered as soon as large enough, the vines will continue bearing through a long season.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; per lb. \$1.00

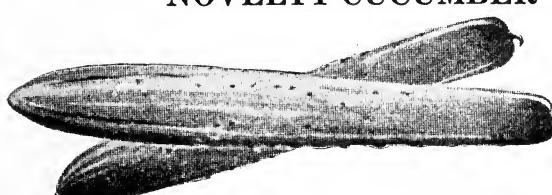
**Fordhook Famous**—The longest White Spine, the finest flavored of all. This is the handsomest and best of all long green cucumbers; always straight and well formed, they never turn yellow, and critical buyers are willing to pay an extra price on market for these unequalled fruits.

Per pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.40, postpaid

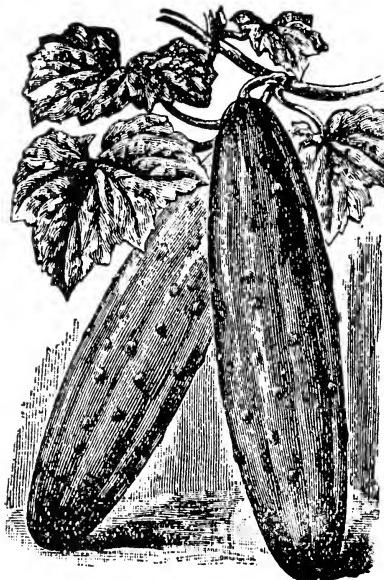
**Fordhook Pickling**—This is the best and most prolific variety for producing pickles of medium size, both for home use and market, or to grow for the pickle factories—in fact, we prefer it to the Cumberland. The vines are extremely vigorous and healthy, yielding a large number of fruits if kept gathered at the proper stage, and remaining in strong, healthy growing condition longer than any other variety. Skin extremely thin, tender and free from toughness when pickled. If allowed to grow to full size, fruits are of excellent table quality, but where the largest quantity of pickles is desired fruits should be gathered while small, so as to insure the greatest crop to produce larger fruits for slicing will soon check growth and productiveness of the vines.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; per lb. \$1.00, postpaid

## NOVELTY CUCUMBER "CHINA-LONG"



thickness well until they run off into a round stem and blossom end. The best of all, and the variety anyone should plant.



Long Green (The old stand-by)

**London Long Green**—This is an old-time popular garden favorite. Under favorable conditions produces dark-green fruits from ten to twelve inches in length. Skin a deep rich green; flesh solid, crisp and of excellent quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

**Japanese Climbing**—A useful variety for growing on a trellis or wire. The cucumbers are long, of a dark green color, white flesh, crisp, and of a good flavor.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c

**Lemon Cucumber**—This dainty little cucumber resembles a lemon both in form and color, having a distinctive flavor superior to and not found in any other cucumber. The Lemon Cucumber is so prolific that a single vine will be ample for the needs of the average family. It is also said that the Lemon Cucumber can be eaten without fear of harmful results that some experience from eating cucumbers.

Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.00

**West India Gherkin**—A very prolific smallfruited variety, used exclusively for pickling. It is not properly a cucumber, and of no value for slicing. The fruits are two to three inches in length, thick, rounded form, closely covered with spines. Vines rather slender, with small foliage, but of strong growth.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c, postpaid

**Fordhook White Spine**—The fruits are nearly cylindrical in form, slightly pointed at the ends, perfectly smooth, of deep rich coloring, marked with distinct white lines at the blossom end. They are of extremely handsome and attractive appearance. Vines are vigorous in growth and enormously productive. Fruits retain their dark-green coloring and crisp freshness longer after picking than any other variety—excepting only the new "Fordhook Famous." They retain also their fine quality even after the seeds are well formed. Splendid as table cucumbers and for market, while it is equally as desirable for commercial pickles. Per pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; per lb. \$1.25, postpaid.

A most remarkable and handsome new long green cucumber from China. The most fleshy and finest flavor of the long green type. The vines make a tremendous growth. They are unusually vigorous, bearing an enormous crop. The foliage is rich dark green and is quite resistant to diseases and insect attacks.

China-Long makes perfectly straight fruit. They average about 20 inches. They are thickest in the middle of fruit, where they average 2 to 3 inches in diameter. The attractive fruit tapers gently towards the ends, holding their

thickness well until they run off into a round stem and blossom end. We recommend this novelty cucumber as much

Per pkt. 15c, postpaid

## THOUSAND HEADED KALE

**Thousand Headed Kale**—This is a variety of cabbage. The plant attains a height of three to four feet. The stem is covered with leaves which form small heads. Animals, especially sheep, eat it greedily. It grows well on most any land and is hardy. The seeds may be either drilled or broadcasted, but we think drilling is better. If drilled, plant in rows 26 to 30 inches apart, so that plants may be thinned out so as to stand 16 to 18 inches apart in the rows. In drilling use  $\frac{3}{4}$  to 1 pound of seed to the acre. In broadcasting  $1\frac{1}{2}$  pounds are required. Prices by mail, postpaid, large pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

## MARROW CABBAGE (*Chou moellier*)

### WHITE STEMMED MARROW CABBAGE

Marrow Cabbage is a valuable dairy and poultry food, very similar to Thousand Headed Kale, but even more prolific. The plants average four to six feet in height, with stalks five to six inches in diameter and weight fourteen to twenty pounds. The stalks are edible and relished by cows. The lower leaves are broken off and fed as they mature.

The plant is not so hardy as Thousand Headed Kale, but is most valuable for green feed in fall and early winter. The culture is the same as for Kale and Cabbage. One pound of seed will produce plants for one acre.

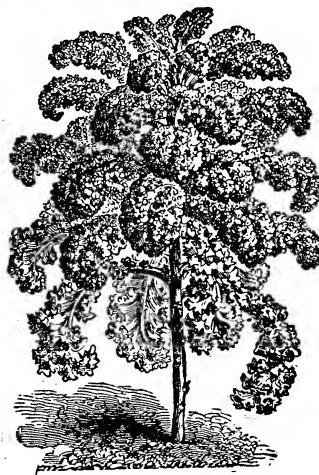
Pkt. 5c; oz. 15c; lb. \$1.50; postage extra.

Every one with Poultry should have a patch of Kale or Marrow Cabbage.

## KALE or BORECOLE

This is extensively grown, especially in the South during the Fall, Winter and Spring. The leaves are used principally for greens. A favorite way is to cook them with bacon. The leaves are also used for garnishing.

Where climate permits seed may be sown any time from August to October, broadcast or preferably in drills eighteen inches apart so that the plants when small may be cultivated. The quality is improved rather than injured by frosts if not too heavy. Farther North sow in April or May in rich light soil in rows two to three feet apart and where plants of the largest size are desired thin to two feet apart in row. It is better not to cut or handle the plants while frozen, but if this is unavoidable, thaw them out in cold water. The young shoots which start up in the Spring from the old stumps are very tender and make excellent greens.



**Tall Green Curled Scotch Kale**—The plant of this variety grows to three or four feet high, bearing long plume-like, light green leaves which are deeply cut, also finely curled at edges. Very ornamental and so hardy that a moderately heavy frost improves rather than injures its quality.

Per pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25  
**Dwarf German or German Greens (Dwarf Curled Scotch)**—Leaves are curly, bright green, very tender and delicate in flavor.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$1.75, postpaid

## GARLIC

The Garlic is the most pungent of all the onion family. It is much used in the south of Europe. The root or bulb is composed of many small bulbs called "cloves," which are planted in the Spring 6 to 8 inches apart, and in August the bulbs are ready to gather. Bulbs, lb. 25c, postpaid

## HORSERADISH

Sets planted in May, small end down, with the top one inch below the surface, in rich, well-cultivated soil, will form radish of large size in one season's growth. Of the common variety, we offer small roots, 8 for 20c; 25c per dozen, or 90c per 100, postpaid. By express or freight, per 100, 75c. Write for price in quantity.

## KOHL RABI

The edible part is the turnip-shaped bulb formed above ground. It is tender and excellent when used before fully grown, combining somewhat the flavors of cabbage and turnip.

Seed should be sown in light, rich soil as early in Spring as possible in rows one and one-half feet apart and when well established thin to six inches apart in the row. Plantings at intervals of ten days will give a succession until hot weather, when they fail to grow well. Plantings may be made the latter part of July for Fall use.

**Early White Vienna**—This variety is extremely early, with distinctly small tops. The bulbs are of medium size, very light green or nearly white, and are of best quality for the table if used when about two inches in diameter.

Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$3.00

**Early Purple Vienna**—Same as above except in color, which is purple.

Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c

**A. B. C. PLANT PROTECTORS**

SPECIAL NON-CURLING TAR FELT PADS

PROTECTS FROM CABBAGE ROOT MAGGOT

 An illustration showing a small plant with several leaves. A circular, dark, flat object, labeled as a "tar felt pad," is placed directly beneath the base of the plant's stem to protect it from pests.

No maggot fly will be able to lay eggs around the stem of your young plants if you use A B C Protector. You won't lose 10 to 30 and 40 per cent of the planting, by the stems being eaten away. Last year A B C Protectors were used in all parts of the United States and Canada, many customers reporting that A B C's produced anywhere from 90 to 100 per cent crops. Prices as follows, postpaid:  
 Per doz. 10c; per 50, 30c; per 100, 40c; per 500, \$1.50; per 1000, \$3.00.

# LETTUCE

For early outdoor culture in the latitude of Portland and Southward the seed may be planted in the Fall, protecting the young plants from severe freezing either with frames or coarse litter, which may be removed as soon as danger of severe freezing is over.

Lettuce in ground out of doors will stand some freezing, but is killed by prolonged frost or frequent freezing and thawing. North of Portland an early crop may be secured by starting under glass from January to March and hardening off well before setting in ground, which should be done as soon as weather will permit.

**Culture**—Lettuce, to be at its best, should be grown rapidly, hence, the soil should be made as rich and friable as possible by liberal manuring and thorough preparation. For winter, sow under glass from November to February and thin out as necessary to prevent crowding. Keep a moderate heat and give all the light and air possible. For general crop, sow outdoors as early in the Spring as the ground can be worked, in drills eighteen inches apart and thin the young plants to four inches apart in the row. As the plants begin to crowd, thin them out and use as required. In this way a much longer succession of cuttings may be had from the same ground.

## New York or Wonderful Lettuce

### THE KING OF ALL HEAD LETTUCE

The real test of any variety is what it does in the hands of the market gardener and commercial grower. The man who depends on his crops for his bread and butter is going to plant that variety which he knows will yield the best crops. The commercial grower cannot afford to take any chances on the variety he plants. He MUST have the best.

The seed we offer is grown by the best growers in the country. The genuine New York or Wonderful forms such a solid head that the seed stalk is unable to break through. Our seed is saved from only such heads which must be cut to let the seed stalk come out.

Buy Butzer's New York or Wonderful and you'll get the best. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50, postpaid.

## NEW YORK NUMBER TWELVE LETTUCE

The introducer says: "This is a single plant selection of our own culture which we have been breeding for several years. We believe it to be the outstanding selection of this variety and a great improvement over any existing types of New York. No. 12 is much earlier, makes large solid heads, uniform in maturing and of the flat head type. Several fields of this strain produced better than 80 per cent of No. 1 heads inside of 65 days from planting." Order early; last season we could not supply the demand

Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$1.00

## CREAMY HEART

The introducer says: "A selection we have made from California Cream Butter. It is similar to that sort, but is earlier and without any brown spots or brown edge, and is of most excellent, tender quality. It is very desirable for early spring planting, where a butter head variety is demanded both for market and home garden. We believe it has a place in the list of lettuce, in that, for early planting it is superior to Black Seeded Tennisball and similar varieties."

Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$1.00

## BIG BOSTON

This is a fine forcing variety for cold frames during the winter months, as it produces heads of very large size in a cooler temperature than most forcing strains. Large heads are beautifully blanched and of superior quality. It heads well in the open ground during cool weather of spring and fall; is very popular. Our seed is an extra selected strain.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$1.75

**Burpee's Butterhead**—A grand mammoth hard-head Cabbage Lettuce. Plants twelve inches across, with extra large, solid round heads, that are particularly rich and buttery in flavor, always well-blanced and tender. The inner leaves are beautifully white and curled like a fine Savoy Cabbage. Splendid for summer use, both for the home table and for market. Most highly recommended.

Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50, postpaid

**Brown Dutch**—Outer leaves large, thick, green tinged with brown and covering a solid head which is beautifully blanched, sweet, tender and well-flavored. The variety is desirable because of its hardness and is well adapted for planting in the South as a winter lettuce.

Pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25

**California Cream Butter, or Royal Summer Cabbage**—A very reliable heading sort, with glossy deep green leaves, the outer ones slightly spotted or splashed with brown. The inner leaves form a large very solid head, rich light yellow in color, very thick, tender and buttery.

Pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25

**Hanson**—Grows to large size, and is uniformly sure heading. Heads very solid and beautifully blanched; crisp, mild and tender. One of the finest varieties to grow for market during the summer months. Our stock is unexcelled.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.25. postpaid

## DEACON, SAN FRANCISCO MARKET, LARGE RUSSIAN, or VAUXHALL

This magnificent lettuce stands hot weather better than any other of the rich butter varieties, and is justly most popular. Plants make firm heads, nearly as large and almost as solid as cabbages. The heads are light green outside, while the inner blanched portion is beautiful cream-yellow, of delicious, rich buttery flavor.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50, postpaid

**Iceberg**—The unusual solidity of the heads is insured by the large, white main ribs of the leaves, each of which, curving strongly into the center, acts like a truss, making it impossible for the leaves to open outward and expose the center, which is constantly thoroughly blanched. It matters not whether grown to head in the early spring or the hottest days of summer, the leaves are always crisp and tender.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50, postpaid

## MAY KING

The heads are very attractive, outer leaves being yellowish-green, tinged with brown, while inside it is richest golden-yellow. It is somewhat similar in appearance to Boston Market, but matures earlier and is lighter green in color, with less of the brownish tint.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00

**Wayahead**—A very fine, very early strain of famous May King Butterhead, which it surpasses in every respect. 75 days to mature.

Pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$2.00, postpaid



Makes a  
Wonder Garden

# LETTUCE -- LOOSEHEAD CUTTING

## BLACK SEEDED SIMPSON

One of the best varieties for early sowing out of doors where a large, thin, exceedingly tender leaf is desired and for those markets which demand a large, loose clustering sort, light yellowish green. Leaves large, thin, slightly ruffled and blistered, even the large outer ones being quite tender. Uniformly attractive, of excellent quality and continues a long time in condition for use.

Pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50, postpaid

## EARLY CURLED SIMPSON'S

An early, erect growing, clustering variety. Leaves light green, slightly frilled and much blistered, sweet, tender and well-flavored. The sort is especially adapted for sowing thickly and cutting when the plants are very young.

Pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid

## EARLY PRIZE

This old standard variety is still the best of the large, thin-leaved clustering sorts for the home garden, but is too tender to stand shipping or handling on the market. The leaves are very large, crimped, bright green tinged with brownish-red and are exceedingly tender and sweet.

Pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 40c; lb. \$1.35, postpaid

## GRAND RAPIDS

This does not form heads, but makes large compact bunches of light leaves with fringed edges. Its delicious quality and handsome appearance make it most popular in winter markets. It is useful also for outdoor planting during spring and fall. Our stock is extra fine.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid

## CHICKEN LETTUCE

A variety recommended for chicken-feed only, as it produces a large bunch of leaves. When running to seed, grows 4 feet tall and supplies lots of green feed. A fine tonic for laying hens. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50

## Cos or "Celery" Lettuce—Salad Romaine

This is the Lettuce that is served at the best hotels and restaurants under the name of "Romaine Salad." It differs from ordinary Lettuce by the shape of the leaves, which are elongated, spoon-shaped and very crisp. It is grown in the same manner as Cabbage Lettuce, but does not make a solid head. The seed should be sown early in the Spring, in good soil, and when plants have three leaves thin out to stand about 4 inches apart in the row, and when plants are of a sufficient size the leaves should be drawn together and tied, in order to blanch the inner ones.

## EARLY WHITE SELF-FOLDING

This excellent variety, also called Trianon, forms a large light green plant with a well folded head of very good quality. The midribs are white and very prominent. The inner leaves are nearly white, slightly tinged with green, and are decidedly firm and sweet. This is considered the most reliable of the Cos or celery lettuces for the home garden or market gardeners' use in this country.

Pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50



## ECLIPSE, OR EXPRESS

Eclipse, or Express, is a dwarf extra early sort, growing about six inches in height, with the leaves very closely folded together.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50

## LEEK

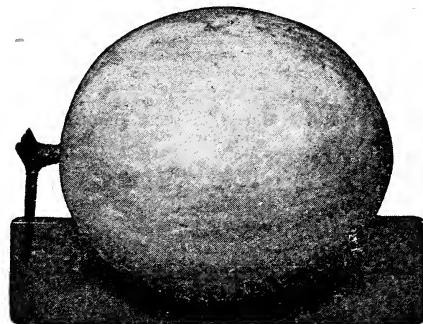
This belongs to the onion family and is a good fall and winter substitute for green onions. The leaves are flat, and the stems are very large, cylindrical and bulbous. Sow early in spring in drills 12 to 15 inches apart, covering one-half inch deep. Thin plants to six inches apart in row and draw the earth about them when cultivating. If one desires very white and tender leeks, transplant when about six inches high, setting four inches apart in trenches about two feet apart and gradually earth up like celery.

**Broad London, or Large American Flag**—This is a strong growing variety, producing large, thick stems of sweet flavor when properly blanched. Per pkt. 5c; oz. 25c.

## HONEY DEW MELON

Unlike the ordinary muskmelon or cantaloupe both in appearance and flavor, the outer skin being smooth, hard and nearly white, being really of the Casaba type. The melons are large, round to oval in shape, extremely thick meated and have a very small seed cavity; flesh very solid and of a rich honey-like flavor, luscious and juicy, much more so than any variety of muskmelon.

Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.00



# MUSK MELON—SALMON FLESHED

**Culture**—Plant the seed in hills six feet apart each way, dropping ten to twelve seeds in a hill. After the plants begin to crowd and the striped beetles are pretty well gone, thin to four of the most vigorous plants in a hill. Give frequent but shallow cultivation, until the plants make runners so long that this is impracticable. Rich earth for the young plants is far better than manure, but if the latter must be used, see that it is well rotted and thoroughly mixed with the soil.

If the plants grow very rank, more and finer fruit will be secured by allowing the main branch to continue growing, but pinch off the end of each side branch after it has one fruit set. The quality of melons of all varieties is largely dependent upon conditions of growth and ripening. Unhealthy vines or unfavorable weather produces fruit of comparatively poor flavor.

**Burrell Gem**—Melons six to seven inches long, four and a half to five inches in diameter, sharply sloping at the ends. They are quite well ribbed and covered with a fine grayish netting. The skin is a rich dark green, contrasting finely with the deep orange-salmon colored flesh, sweet and tender. The flesh is thick and firm, ripening close to the skin, leaving only a thin rind. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25, postpaid.

**Burpee's Fordhook**—The most perfect cantaloupe. It is about the same size as Improved Jenny Lind, very thick flesh, of orange yellow, very small seed cavity, comparatively few seeds, flesh very solid and of very high flavor, flesh staying solid and firm after melon has become quite yellow, making it an excellent long distance shipper. The vines are healthy and a very strong grower, setting fruit close to hill and keep on setting fruit throughout the season to end of vine. They are well ribbed, very heavily netted, weighing about two pounds apiece. Per pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb., 50c; per lb. \$1.50, postpaid.

## BURPEE'S "SPICY" CANTALOUPE

The Spicy is of vigorous growth, wonderfully prolific and strikingly distinct. The handsome melons average about nine inches long by six inches in diameter and are very solid with an unusually small seed cavity. The firm flesh is of the richest salmon color.

Per pkt. 15c; oz. 30c;  $\frac{1}{4}$  lb. 85c; lb. \$3.00

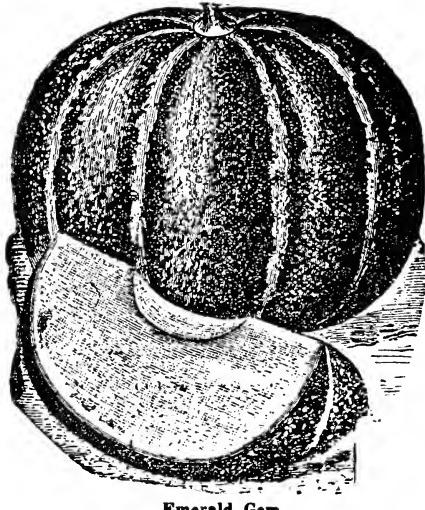
"Edwards Perfecto"—"Salmon Fleshed Rockyford". Better than Pollock 10-25". Fruit uniform in size, nearly round, and densely covered with a hard gray netting. Flesh very thick with a delightful salmon-color shading into green as it nears the rind. The Perfecto has the deepest flesh, smallest seed cavity and more salmon color than any type of Rockyford shipping melon. The small seed cavity is an aid in shipping as well as appearance.

Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 75c; lb. \$2.00

**Golden Eagle**—The oval fruits average ten inches in length and seven inches in diameter; heavily ribbed and netted, with skin of a light golden hue when ripe. The thick flesh is of a rich salmon, sweet and melting, with a delightful aroma. It is particularly desirable for heavy soils, and continues bearing throughout the season.

Per pkt. 10c, oz. 30c

**Hearts of Gold**—This melon runs very uniform in size. It is a splendid shipping variety and is increasing in use. The melons are oval to oblong in shape and are a little larger than the Rockyford variety. While it is a ribbed melon the ribs are not prominent and the melon is very heavily netted. The flesh is a rich orange color, fine grained and of excellent flavor. The seed cavity is small. It does not turn yellow when ripe but retains its natural green color and remains solid and firm for days after it is picked from the vine. The vines are very strong growers and are rarely affected by rust. Hearts of Gold might be considered one of the leading commercial varieties in California for shipping purposes and we strongly recommend it be given a thorough trial. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb., 55c; lb., \$2.00, postpaid.



Emerald Gem

**Emerald Gem**—Small to medium size; skin deep green, generally smooth; flesh thick, rich salmon, not surpassed in richness and flavor. But few varieties are so nearly certain to produce uniformly good melons.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c

**Osage, or Miller's Cream**—The fruits are larger than those of the Emerald Gem; nearly round in form, but having the same distinct dark green skin, with lighter bands between the ribs, and thick, firm, orange flesh of fine quality. Per pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 40c; per lb., \$1.25, postpaid.

"**Paul Rose**," or Petoskey—The fruits are nearly round, or slightly oval, rather larger than Netted Green, ribbed and heavily netted; of light green or faint golden hue when fully ripe. The flesh is thick, of rich, deep orange color, and ripens close down to the rind, with small seed cavity. The bright salmon flesh is much firmer than that of our Emerald Gem. It is an excellent shipping variety of handsome appearance and good quality. Per pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 30c; per lb., \$1.00, by mail, postpaid.

**Gold-Lined Rocky Ford**—Of a fine uniform shape and without ribs; slightly oval; meat thick, light green, with a light golden yellow rim. Flesh very sweet and spicy. There is no better melon than this.

Per pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.25

## Banana Muskmelon

A long yellow-fleshed melon. A very interesting and at the same time a splendid melon. The melon is from 20 to 28 inches long and almost solid. The meat is of a rich salmon color, and has a flavor which is truly delicious. Don't pick the melons until they are thoroughly ripe, as they are then at their best. Plant some Banana Melons for home use and county fair exhibits. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.



# MUSK MELON—GREEN FLESHED

**Extra Early Hackensack**—This is a selection of the popular Hackensack, ripening fully ten days earlier. Melons of good size, heavily-ribbed and netted; thick, light green flesh of fine flavor.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50, postpaid

**Montreal Nutmeg**—This is a very large-fruited variety of superior quality. The large fruits are nearly round in form, slightly flattened at the ends, with very large, broad, heavy ribs. Dark-green skin, thickly covered with heavy netting. The flesh is two inches thick, light green, melting, and of delicious flavor. This is one of the handsomest varieties to grow for exhibition.

Per pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00

**Long Island Beauty**—Fruits of large size, well-flattened, heavily ribbed and netted. Of very handsome appearance and fine quality. Most highly recommended; it ripens as early and is similar to Hackensack, but superior. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50

**Early Jenny Lind**—This is a leading market variety by reason of its extremely early ripening and prolific bearing qualities. The melons are of small size, quite flattened in form, heavily ribbed and netted.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

**Prolific Nutmeg**—Fruits round, seven inches in diameter, slightly flattened at the ends. Well-ribbed and heavily netted.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid

**Burpee's Netted Gem, or "Rockyford"**—The most popular and finest green-fleshed Musk melon. The vines are of strong, healthy growth, comparatively short, and branch freely, setting a large number of fruits close to the hill. The melons are even and regular in size and form, nearly round, or slightly oval. They are always finely netted, and the skin is of a light golden hue when fully ripened. The flesh is light green in color, melting and luscious in flavor, and ripens close to the skin, so that there is but a very thin rind in a well-grown fruit.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

**Burpee's Bay View**—Oblong fruits, twelve to fifteen inches in length. Vines strong, vigorous and productive. Fruits have broad, heavy ribs, well-netted with light-green flesh of good flavor.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid

**Burpee's Champion Market**—A splendid variety of the netted Gem type, producing fruits nearly three times as large. They are regular in form, nearly round, averaging eight inches in diameter, with well netted ribs; thick, light-green flesh, with very thin rind and true Netted Gem flavor.

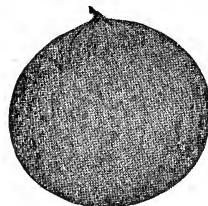
Per pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50, postpaid

**Acme, or Baltimore**—Fruits of medium size, oval in form, with a slight neck at the stem end. Well-ribbed and heavily netted; skin turning to a golden tint when ripened. Flesh firm and of superior quality.

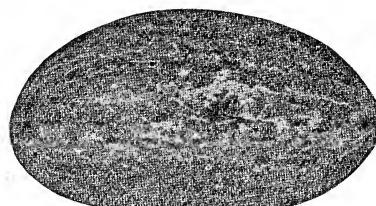
Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

## CASABAS

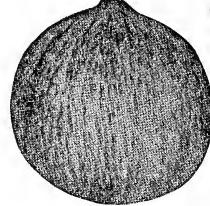
The Casaba is now at full zenith of popularity. Previously it was grown as a late melon to mature after the cantaloupe season. As a late melon its popularity was confined to a limited section near the Coast of Southern California. But it is now demonstrated that it can be grown in all semi-arid sections side by side with the early cantaloupes and watermelons. The carloads of large perfect Casabas of the Golden Beauty variety that were shipped from the San Joaquin Valley during the past two seasons, have proven the value of the Casaba as an early melon and good shipper equal to the watermelon and cantaloupe.



GOLDEN BEAUTY



A. & M. SANTA CLAUS



WINTER PINEAPPLE

**Golden Beauty**—One of the best casabas. It is a variety grown extensively for shipment from Southern California. The fruits are nearly globular, bright yellow with golden tint, with wrinkled skin, six to eight inches in diameter. The flesh is white, very thick, juicy and sweet.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 40c; lb. \$2.50

**Hybrid Casaba**—This excellent Casaba grows to a large size. Flesh nearly three inches thick and of excellent flavor. Many of you who have visited the market during the months of October and November must have noticed the melon and the fancy prices paid for it. Only a few growers had it in large quantities. It is a rampant grower, a large yielder, and bears up until killed by frost. The best time to plant is in June and July, and do not market them until well ripened. The increased demand for this melon will insure it a profitable late crop.

Per pkt. 5c; oz. 20c; lb. \$2.00, postpaid

## CITRON

**Citron**—The fruits are medium sized, uniformly round and are used exclusively for preserves or pickles. The color is dark green, distinctly striped and marbled with light green. The flesh is white and solid but is not at all suitable for eating raw. Seed red. The fruits mature late in the fall and in this condition can be kept for a long time.

Per pkt. 5c; oz. 15c; 2 oz. 20c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

**MARKET-GARDENERS** are requested to send us a list of the vegetable seeds they intend purchasing. We shall be glad to submit low prices on them. Market-gardeners who purchase seed in large quantities are entitled to a reduction in accordance with the quantity bought. Write us fully and we shall be very glad to reply and give prices.

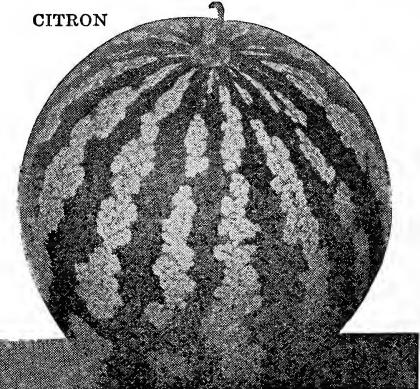
**Santa Claus**—The name is appropriate to this melon. You can send nothing more delicious to your Eastern friends for a Christmas present. The rind has the appearance of the mottled Pomegranate Muskmelon. The shell is hard and about one-eighth of an inch thick. There is no seed cavity. The seeds are embedded in a jelly-like pulp.

Per pkt. 5c; oz. 20c; lb. \$2.50, postpaid

**Winter Pineapple**—This is the first of the Casabas introduced into America, and is the parent of a number of hybrids all of which excel it in excellence of flavor, but none equal it in keeping qualities.

Per pkt. 5c; oz. 25c; lb. \$2.50, postpaid

CITRON



# WATER MELONS

**Culture**—In order to get good Water Melons, it is essential that the plants get a good start, and to this end it is important to prepare hills about eight feet apart by thoroughly working into the soil an abundance of well-rotted manure—hen manure, sheep guano, guano, or other forms rich in nitrogen, being most desirable. Over this highly-manured soil put an inch or more of fresh earth and plant the seed on this, covering it about an inch in depth. It is important that the seed should not be planted before the ground becomes warm and dry, as the young plants are very sensitive to cold and wet. When the plants have formed the first pair of rough leaves, they should be thinned, so as to leave two or three of the strongest and best to each hill. Frequent watering of the plants with liquid manure will hasten the growth, thus diminishing the danger from insect pests.

**Baby-Delight**—Is a "real" watermelon, of luscious sweetness but diminutive size. The ripe melons weigh only from 3 to 6 pounds each. The skin is lustrous dark green, the rind thin but strong. The rich carmine crystalline flesh is always solid and of exceptionally sweet flavor.

Per pkt. 10c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.50, postpaid

**Cuban Queen**—The melons are of large size and oblong in form. Skin beautifully striped in dark and light green. Rind quite thin, but tough enough for shipping. Flesh bright red, firm and of luscious quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 85c

**Dixie**—A cross of Kolb Gem and old-fashioned Mountain Sweet, surpassing the former in earliness, productiveness and shipping qualities, and fully equaling the latter in quality.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25

**Fordhook Early**—An extra early variety of fine quality and fair size; form round to oblong; skin dark green mottled with a darker shade; flesh bright red; seeds white.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid

**Hungarian Honey**—Small round; rich red flesh.

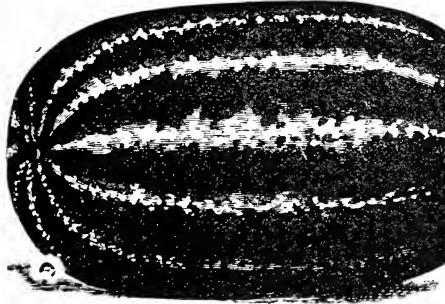
Per oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid

**Halbert Honey**—A variety somewhat similar to Kleckley Sweets—of much darker color.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00

**Ice Cream, or "Peerless"**—An oblong melon, with dark green skin. Flesh sweet; deep pink.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid



**Kleckley's Sweets, or Monte Cristo**—Medium to large in size, medium early and exceedingly sweet; oblong in form, slightly tapering towards the stem end; rind very dark green; flesh very bright, rich red and ripens nearly to the rind; too tender for a shipping melon; seeds white to light brown.

Per pkt. 5c; oz. 15c; 2 oz. 20c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

**Kolb's Gem**—Oval shape and of a delicious, sugary flavor, bright red flesh, firm and solid. One of the most productive and best keeping melons. Good for marketing.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25

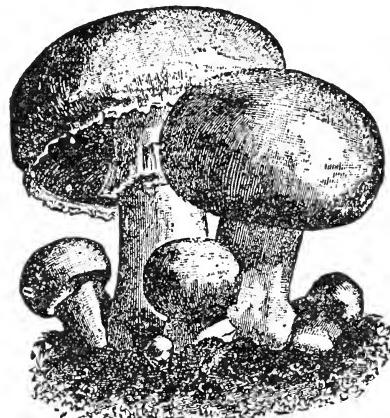
**Sweetheart**—Oval, light green mottled. Flesh bright red, very firm, yet tender. A fine shipper.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c

**Tom Watson**—A large, long melon similar in shape, color and splendid quality to Monte Cristo but averaging larger in size and with a tougher rind, making it especially adapted for shipping to distant markets. The vines are vigorous and productive. The flesh is rich red, sweet and tender. Seed white, more or less marked with brown. Wherever grown in the South it has become very popular as a shipping sort. There has been an increasing demand of late for a better quality of shipping melon and this demand has been met in a most exceptional degree by the Tom Watson.

Per pkt. 10c; oz. 15c; 2 oz. 20c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

## MUSHROOM



Cultural directions, to be of any value, would be too lengthy to give here, but we will forward full directions for the planting and culture of spawn with each order.

**No. 7 BROWN (Bohemian)**—A good producer of heavy mushrooms.

**No. 8 CREAM WHITE**—A mammoth strain.

**No. 9 WHITE (Alaska)**—Popular market variety.

Pure Culture Mushroom Spawn with culture directions. Brick (about  $1\frac{1}{4}$  lbs.), postpaid, 40c. Write for price in quantity.

## MUSTARD

Mustard is not only used as a condiment, but the green leaves are used as a salad or cut and boiled like spinach. Sow as early in the spring as the ground will permit, in drills about eighteen inches apart, covering one-half inch deep. For succession, sow every few weeks until Autumn. Water freely.

**Chinese**—The leaves are twice the size of the ordinary white mustard, and the flavor is sweet and pungent.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid

**White English**—Leaves comparatively smooth and deeply cut; color medium dark green. The plant is upright in growth, inclined to branch as it approaches early maturity and soon bolts to seed.

Per pkt. 5c; 2 oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 35c

**Fordhook Fancy (Ostrich Plume)**—Plants are of vigorous growth, and have beautiful dark green leaves which curve outward like fine ostrich plumes. It stands well, even during the hot summer months.

Per pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 45c; lb. \$1.25, postpaid

**Southern Giant Curled**—Leaves light green, frilled and much crimped at edge. Highly esteemed in the South for its vigorous growth and good quality.

Per pkt. 5c; oz. 10c; 2 ozs. 15c;  $\frac{1}{4}$  lb. 20c; per lb. 65c

## OKRA or GUMBO

**Okra, or Gumbo**—Cultivated for its young seed pods which are used in soups, or stewed and served like asparagus. It is highly esteemed in the south. Plant in hills about four feet apart, putting six to eight seeds in a hill, and after the plants are well started cut out all but two. The dwarf sorts can be planted much closer in hills, two to three feet apart, or in drills two feet apart, thinning the plants to about one foot apart in the row. Gather the pods when quite green and about an inch and one-half long.

**Perkin's Mammoth Long Pod**—The plant is dwarf growing even in size, and productive, maturing pods earlier than most sorts. The pods are long, slender, deep green and remain tender much longer than most sorts.

Per pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00

**Dwarf White**—The longest podded variety; the plants are two feet high and very productive. Produce pods long, greenish white, very thick and fleshy.

Per pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00

Per pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00

## ONION PLANTS—Bermuda

It is recommended to plant the rows sixteen inches apart and the plants three to four inches apart in the rows. If planted in this manner it will take about 100,000 to the acre. An old-fashioned dibble can be used successfully in planting. Do not plant too deep. Plants are put up in bundles of about 100 and sixty bundles to a crate. Count not guaranteed.

## VEGETABLE PLANTS

We have grown for us large quantities of choice vegetable plants, and can supply all of the varieties listed below, in their proper season, in most any quantity. We can supply all vegetable plants in two grades—plants direct from the seed beds and those that have been transplanted into shallow boxes. Transplanted plants are much stronger and better rooted, and are well worth the price, especially in the early part of the season. NO PLANTS SENT C. O. D.

### WE GROW ONLY THE FOLLOWING PLANTS. NO PLANTS SENT C. O. D.

#### CABBAGE

##### EARLY JERSEY WAKEFIELD, COPENHAGEN MARKET, DANISH BALLHEAD

Transplanted and "pulled" plants. Early and late at seasonable times.

	Postpaid	Not Prepaid		
Prices	Doz.	100	100	1000
Transplanted .....	\$0.25	\$1.25	\$1.00	\$8.00
Not transplanted .....	.15	1.00	.75	6.00

#### CAULIFLOWER

##### EARLY SNOWBALL, DRY WEATHER, KING WHITE

Cauliflower seed is scarce and high in some varieties and plant prices subject to change.

	Postpaid	Not Prepaid		
Prices	Dozen	100	1000	
Early Varieties, transplanted.....	\$0.30	\$1.75	\$12.00	
Not transplanted .....		1.25	10.00	

Late kinds, transplanted .....

Late kinds, not transplanted } Write for prices

Add 15c per hundred if ordered by mail

#### CELERY

##### GOLDEN SELF BLANCHING, WHITE PLUME

Fine, healthy plants in early and Winter varieties furnished in season.

To succeed with celery keep the plants growing constantly while young—if they "stand still" they are liable to run up to seed later.

	Postpaid	Not Prepaid		
Prices	Doz.	100	1000	
Transplanted .....	\$0.30	\$1.25	\$1.00	\$8.50
Not transplanted .....				Write for prices

#### BRUSSELS SPROUTS

These are very hardy and should be grown the same as Kale or Broccoli.

	Postpaid	Not Prepaid		
Prices	Doz.	100	1000	
Brussels Sprouts .....	\$0.25	\$1.50	\$1.25	\$10.00

**NOTICE**—Although we exercise the greatest care in the packing and dispatch of Vegetable Plants, we cannot guarantee safe arrival. Our responsibility ends on delivery to P. O. or Express Office.  
No plants sent C. O. D. and no Pot Plants sent by Mail.

## BOTTOM ONION SETS

Small onions grown from seed that has been sown too thick to attain a large size. The small onions (about  $\frac{1}{2}$  inch in diameter) thus obtained are planted out and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand they make ripe onions of the best quality, and come to maturity some six weeks earlier than a crop grown directly from the seed.

Per lb. 20c; 5 lbs. 75c, postpaid

## POTATO ONION

Valuable for bunching or an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium size bulbs. Light brown skin, mild white flesh. It is the earliest, most vigorous in growth and easiest to cultivate of all onions from sets. For the family garden, whether pulled green or as dry bulbs, they are most excellent. Per lb. 25c, postpaid

## SHALLOTS

Valuable for bunching or for an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium size bulbs. Light brown skin, mild, white flesh.

Per lb. 25c, postpaid

For large quantities, write for prices, stating quantity wanted.

## ONION PLANTS—Bermuda

	Prices, Postpaid
1 bundle, about 100 plants .....	\$0.30
2 bundles .....	.50
3 bundles .....	.65
5 bundles .....	1.00
10 bundles .....	1.75
Crate 60 bundles .....	8.50

## ORDER EARLY

Will send plants when they are ready to plant.

## PLANTS. NO PLANTS SENT C. O. D.

## TOMATOES

### EARLY JEWELL, EARLIANA, JOHN BAER, YELLOW PEAR

Tomato plants should not be set out before the weather is settled and ground warm, unless they are protected from frost.

If you do not know what variety is best, tell us; we will give you the right one.

Postpaid Not Prepaid

Prices	Doz.	100	1000
Transplanted .....	\$0.30	\$1.50	\$1.25 \$10.00

Write for prices on "pulled" plants and large lots.

## BROCCOLI

Our famous "St. Valentine" Broccoli should be in every garden. Broccoli is a Winter Cauliflower very hardy and of the finest quality—"St. Valentine" is the best variety. Plants can be set after June and are ready to use in March.

	Postpaid		Not Prepaid	
Prices	Doz.	100	1000	
Broccoli .....	\$0.30	\$1.50	\$1.25	\$12.00

Write for prices on large lots.

## KALE

When you order Kale be sure to state whether you want the Garden Kale or the "Cow" Kale.

Postpaid Not Prepaid

Prices	Doz.	100	1000	
Thousand Head or "Cow" Kale .....	\$0.20	\$1.25	\$1.00	\$6.00
Garden or Curley Kale .....	.25	1.50	1.25	10.00

Special prices on large lots in season.

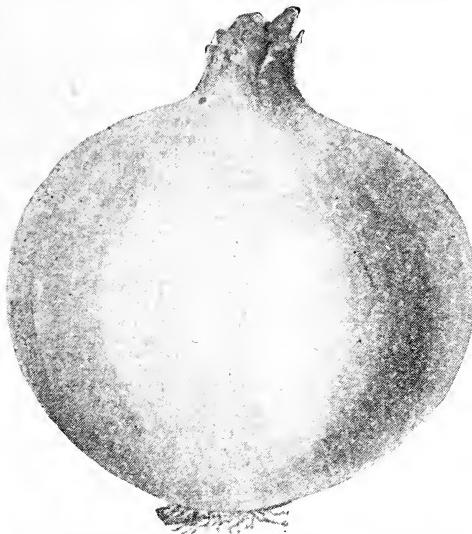
## MISCELLANEOUS PLANTS

	Postpaid		Not Prepaid	
Prices	Dozen	100	1000	
Celeriac .....	\$0.25	\$1.00	\$ .85	10.00
Egg Plant, Black Beauty .....	.30	1.25	10.00	
Pepper, Chinese Giant .....	.30	1.25	10.00	
Tobacco .....	.30	1.25	10.00	

Add 25c per 100 for above plants by mail.

Chives (Schnittlauch), per bunch .....

15c



## OREGON YELLOW DANVERS

The Old Reliable

The reputation of this great onion goes forward unchallenged year after year as the most reliable yellow onion grown. There is no onion whose character and worth can be more accurately measured by the confidence it has instilled in the onion seed buying than the Oregon Yellow Danvers. It has no enemies as it is conceded to be the best for the Northwest. It stands paramount on its great keeping quality and is more extensively grown than any other onion in the northwest. With such pronounced merits as earliness, productiveness, excellent table quality, fine keeper, enormous yielder, it could hardly be other than popular. Order early.

Our seed is grown especially for us by the best onion seed growers in Oregon. No onion grower can afford to plant anything inferior when such seed can be obtained.

Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00

## AUSTRALIAN BROWN

Quick to mature; a good keeper; solid and heavy; an excellent onion for shipping. The skin is a light brown. Its solidity gives it great weight and a sack weighs several pounds heavier than a sack of other varieties. The onions are thin-necked and ripen very early in all soils. As the plant makes a very quick growth it matures the bulbs before the hot, dry summer weather sets in, and this in connection with the exceptional keeping qualities makes it a most profitable variety.

Per pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75, postpaid

## WHITE BERMUDA or Crystal White Wax

This variety is rapidly becoming the most popular of the Bermuda onions. It is a clear waxy white onion, and has the delightful mild flavor of the Yellow Bermuda. Like the Yellow Bermuda, it is of a somewhat flat shape, the onions sometimes grow to the size of saucers. This variety sells on the market at from 25c to 50c per crate more than the Yellow Bermuda, and in Portland it has largely replaced all other onions during spring and early summer. Is very firm and solid, and is the mildest and earliest of all onions. It does not keep as well as the Yellow Bermuda; however, it is very popular. You can pull green onions sixty days after planting the seed, and matures in 115 days. Prices: Pkt. 10c; oz. 30c; ¼ lb. \$1.00; lb. \$4.00, postpaid.

## PRIZETAKER

A large Yellow Globe Onion of finest flavor, handsome shape and enormous size, many single onions having been raised to weigh three pounds or over. The Prizetaker grows always to a perfect globe shape with a bright straw-colored skin.

Per pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid

## ONIONS

**Cultivation**—Give the onions the first hoeing just skimming the ground between the rows as soon as they can be seen in the row. Hoe again in a few days, this time close up to the plants, after which weeding must be begun. This operation requires to be carefully and thoroughly done. The weeder must work on his knees astride the row, stirring the earth around the plants, in order to destroy any weeds that have just started. At this weeding or the next, according to the size of the plants, the rows should be thinned, leaving from eight to twelve plants to the foot. In ten days or two weeks they will require another hoeing and weeding similar to the last and two weeks later give them still another hoeing, and if necessary another weeding. If the work has been thoroughly done at the proper time, the crop will not require further care until ready to gather.

**Gathering**—As soon as the tops die and fall, the bulb should be gathered into windrows. If the weather is fine they will need no attention while curing, but if it is not they will need to be stirred by simply moving them slightly along the row. Cut off the tops when perfectly dry, about half an inch from the bulb and then after a few days of bright weather the onions will be fit to store for winter.

## RED WEATHERSFIELD

This is a standard variety planted all over America. It is of large size, very productive, and an excellent keeper. The color is deep purplish-red, and the flesh is white, moderately grained, and very firm. It is a mild onion, and has retained its popularity through a large number of years. You can pull green onions in 63 days, and matures in 150 days.

Prices: Pkt. 5c; oz. 25c; ¼ lb. 60c; lb. \$2.00, postpaid

## SWEET SPANISH

We recommend this new variety of onion very highly, and believe that it will be more than pleasing to those who plant it. It is a globe-shaped onion of bright yellow color, and mild in flavor, and grows a little larger than the Prizetaker. It is a good yielder and a splendid keeper. This is a fine variety for home or market use. Green onions can be pulled 65 days after planting the seed, and it matures in 145 days.

Prices: Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid

## SOUTHPORT WHITE GLOBE

This is a most desirable medium early, or main crop variety. This variety yields abundantly, producing medium to large, handsome and fine-shaped clear white bulbs. The flesh is firm, fine-grained, quite mild in flavor, and is very attractive. The bulbs are globe-shaped, keep well, and are desirable for shipping. This is a good variety for home garden or market. You can pull green onions 65 days after planting the seed, and it matures in 140 days.

Prices: Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid

## WHITE PORTUGAL, OR SILVERSKIN

The best known and most largely used white onion. Is flat on the bottom and thick toward the top; very hard and firm. An excellent keeper. Is largely used for white onion sets as well as for bulbs for the best market trade and also for pickles.

Per pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50

## GRANDPA'S CONGLOMERATION ONION SEED MIXTURE

Turn back in thought to the days of your youth, when Grandpa and Grandma planted the vegetable garden. There was always a large corner in which a mixture of different kinds of onion seeds was planted on the theory that if one sort did not do well the other sort would, and in that way it happened always that there never was a shortage of onions. If the good housewife wished a mild white for salads, it was always found therein; if she wished a more pungent one, that was taken. If she wished a brown or yellow or red, or no matter what color, there they were, and with this in view we have arranged "Grandpa's Conglomeration Onion Mixture"; it contains all colors, shapes and sizes. A package of seed is sufficient to grow one or two bushels, an ounce from three to five bushels, and a pound is safe for 60 to 100 bushels or more.

Price: Big pkt. 10c; oz. 15c

## PARSLEY



Parsley succeeds the best on rich, mellow soil. The seed is even slower than parsnip in germinating and should be sown as early as possible in the Spring, in drills one to two feet apart and when the plants are well up thin to one foot in the row. When the plants are about three inches high cut off the leaves; the plant will then start a new growth of leaves which will be brighter and better curled and later, if these turn dull or brown they can be cut in the same way; every cutting will result in improvement.

**Plain, or Single**—Plain leaves, excellent flavor.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid

**Extra Curled Dwarf, or Emerald**—The moss-like leaves, of a handsome bright green color, are finely curled.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 70c, postpaid

**Turnip-Rooted, or Hamburg**—The edible portion is the fleshy root, which resembles a small parsnip, and is esteemed for flavoring soups, stews, etc.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c, postpaid

## PARSNIPS

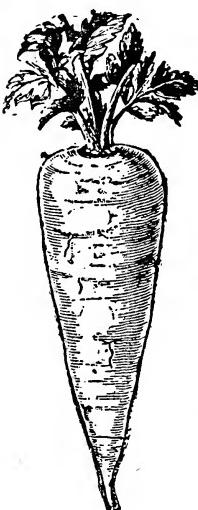
Parsnips are usually grown on deep, rich, sandy soil, but will make good roots on any soil which is deep, mellow and moderately rich. Fresh manure is apt to make the roots a little coarse and ill shaped. As the seed is sometimes slow to germinate, it should be sown as early as possible in drills two and one-half feet apart, cover one-half inch deep and press the soil firmly over the seed. Give frequent cultivation and thin the plants to three or four to the foot.

### GUERNSEY

**Guernsey**—(Improved Half-Long)—The roots do not grow so long as the Hollow Crown, but are of greater diameter and more easily gathered. The roots are very smooth; the flesh is fine grained and of most excellent quality. Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid.

### LONG SMOOTH, or HOLLOW CROWN

**Long Smooth, or Hollow Crown**—A great cropper, tender, sugary, and considered the best for general cultivation. Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid.



## PEAS

For early peas the soil should be light and warm, but for general crop a moderately heavy soil is better. Fresh manure and very rich or wet mucky soil should be avoided, as they cause a rank growth of vine at the cost of the quality of the peas, furthermore such soil is often the cause of early sorts maturing unevenly.

Sow as early as possible a few of some early variety in warm, quick soil, prepared the fall before, planting in double rows six to eight inches apart and two and one-half to four feet between the double rows. The general crop can be delayed until later, but we have met with better success from sowing all the varieties comparatively early, depending for succession upon selecting sorts that follow each other in maturity.

The peas will give quicker returns if covered only one inch deep and where earliness is most important they may be treated in that way. Larger pods and more of them will be produced if the seed be planted in trenches three to six inches deep and covered with only one or two inches of soil. When the plants are five or six inches high fill the trench level with the surface. This will secure deep rooting, prevent mildew and prolong the bearing season. If the peas be covered to the full depth at first, or if water be allowed to stand in the trenches they will not germinate or grow well.

The wrinkled varieties are more sensitive to cold wet weather than the smooth seeded sorts but are of superior quality. All varieties growing more than one and one-half feet do better if staked up or brushed when four to six inches high. This support is usually given by sharpened branches of trees set between the double rows. The crop should be gathered as fast as it is fit for use. If even a few pods begin to ripen, not only will new pods cease to form, but those partly advanced will stop growing.

### THE BIG FOUR

One pound of each, \$1.00, postpaid

### BLUE BANTAM

Bears abundantly long, handsome pods fully as large and equally as early as Gradus, while the vines require no staking! Is unequalled for combination of extreme earliness, superb quality, and unusual productiveness. The dwarf vigorous vines average fifteen inches in height and carry really enormous crops of large, deep bluish-green pods. The handsome pointed pods, generally borne singly, measure four to four and one-half inches long and are tightly packed with eight to ten extra large, deep bluish-green peas. These peas are not only large in size, but of most luscious flavor. The pods are ready to pick as early as American Wonder, while double the size; in fact, they average fully as large as Gradus! If sown thinly, say four inches between the seeds in the row, they will astound even experienced gardeners.

Per pkt. 10c; lb. 30c; 5 lbs. \$1.00, postpaid

### GRADUS

This extra early, wrinkled pea bears pods of large size, and combines quality with earliness. It is very hardy; can be planted fully as early as the smooth peas; growth, vigorous and healthy; vines  $2\frac{1}{2}$  feet in height; very prolific. The quality and flavor are delicious, and the peas remain tender and sweet for a long time. These peas are planted by market gardeners around the vicinity of Portland more than any other kind.

Per pkt. 10c; lb. 30c; 5 lbs. \$1.00, postpaid

### LITTLE MARVEL

We are sure that as soon as our customers become acquainted with Little Marvel they will drop both Little Gem and Nott's Excelsior, popular as these two varieties are today. The vines, of dwarf even growth, average fifteen inches in height and are heavily set with fine pods, frequently borne in pairs. The pods average two and one-half inches in length, are square at the bottom and well filled with six to seven quite large, deep green peas. The peas are ready for the table fully as early as American Wonder or Nott's Excelsior, while the pods are larger and the vines produce a much heavier crop. All who desire a fine early crop of the choicest wrinkled peas will be delighted with Little Marvel.

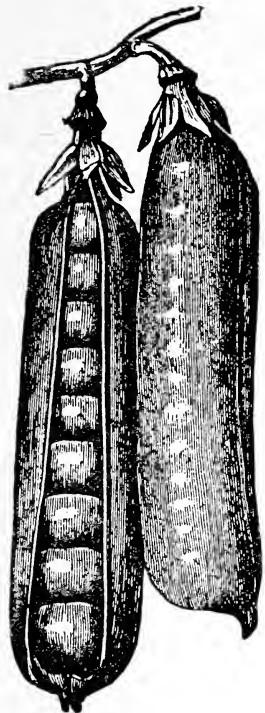
Per pkt. 10c; lb. 30c; 5 lbs. \$1.00, postpaid

### TELEPHONE

A tall-growing, late sort, three and a half to four feet in height, having pods of a very large size, containing six to seven large peas of delicious flavor. Continues in bearing for quite a long time.

Per pkt. 10c; lb. 30c; 5 lbs. \$1.00, postpaid

One pound each of the above peas, \$1.00, postpaid



## PEAS—Continued

**Alaska**—Also called "Earliest of All"! The vines grow from 20 to 30 inches in height, bearing well-filled, medium-sized pods. Matures practically the entire crop all at one time. Most popular first-early pea for canning.

Per pkt. 10c;  $\frac{1}{2}$  lb. 15c; lb. 30c; 5 lbs. \$1.00

**Alderman**—Large podded, fine flavor. A splendid new large podded main crop pea, growing about five feet high. The pods are larger than the Telephone, are dark green, and are well filled with large wrinkled peas of fine flavor.

Pkt. 10c; lb. 30c, postpaid

**American Wonder**—Of extremely dwarf growth; only eight to ten inches high and nearly as early as Alaska. The pods are filled with luscious, large, wrinkled peas of first-class quality.

Per pkt. 10c; lb. 30c, postpaid

**Bliss' Everbearing**—The vines are stout, of medium height, about two and one-half to three feet, bearing at the top six to ten good sized pods, about two and one-half to three inches long. If these are picked as they mature and the season and soil are favorable, the plant will throw out branches bearing pods which will mature in succession, thus prolonging the season. The peas are large and wrinkled, tender, of superior flavor and preferred by many to any other sort.

Pkt. 10c; lb. 35c; 2 lbs. 60c; 5 lbs. \$1.25, postpaid

**Champion of England**—A standard, very productive, main crop variety, universally admitted to be one of the richest and best flavored of the late peas. The vines are tall, about four to five feet high. The peas are large, about three inches long. The seed is light green and wrinkled. We consider this variety one of the best of its season, either for the home garden or for market gardening use.

Pkt. 10c; lb. 35c; 2 lbs. 60c; 5 lbs. \$1.25, postpaid

**"Dwarf Telephone"**—The vines, though growing only about eighteen inches in height, are very stout, and generally bear a good crop of large, well-filled pods. The pods average five inches in length, containing seven to nine large peas of a light green color, which are tender and sweet.

Per pkt. 10c; lb. 30c; 5 lbs. \$1.25, postpaid

**Improved Stratagem**—Vines of strong growth, with large foliage, but only eighteen inches in height, and do not need any support. Pods of large size, well filled with large dark green peas of rich, sweet flavor. One of the very finest.

Per pkt. 10c; lb. 30c; 5 lbs. \$1.25, postpaid

### LAXTONIAN

A new, early, dwarf, robust, large podded pea of superior excellence, often referred to as "Dwarf Gradus," and is said to surpass "Gradus" in yield and quality, with the added advantage of dwarfer growth, averaging 16 inches. The large pods are well filled, holding 8 to 10 peas. "Laxtonian" is so highly recommended that you should give it a trial.

Per pkt. 10c; lb. 30, postpaid

### NOTT'S EXCELSIOR

The peas are closely packed in the pod. A very fine variety of compact dwarf growth, with pods one-third larger than those of the American Wonder, and maturing almost equally as early. The pods average three inches in length, and are well filled to the squared ends with large peas of unusually sweet flavor.

Per pkt. 10c; lb. 30c, postpaid

### THOMAS LAXTON

#### Extra Early and Fine Quality

Thomas Laxton Peas are very similar to Gradus in every way except the shape of the pods, the ends of which are square, and the pods and vines are a darker green. It is nearly or quite as early as Gradus, and the large wrinkled, dark green peas are sweet, tender, delicious, and unexcelled in quality by any of the late varieties. The vines grow about three feet high.

Pkt. 10c; lb. 30c; 5 lbs. \$1.25, postpaid

### WORLD'S RECORD

#### An Excellent Early Wrinkled Variety

World's Record is an English variety which has proved to be perfectly adapted to the Northwest. Our seed has been grown in this locality for several seasons, and is thoroughly acclimated. The vines are semi-dwarf, growing about three feet high, and the yield, size and quality of the peas is wonderful considering its extreme earliness. The pods are large, dark green, of the Gradus type, and are filled with eight or ten large wrinkled peas, sweet and of fine flavor.

Pkt. 10c; lb. 30c; 5 lbs. \$1.25, postpaid

### SWISS

A flat or 3-cornered variety of excellent quality for soup. Insects do not trouble this variety.

Pkt. 10c; lb. 25c, postpaid

## SUGAR PEAS

### MAMMOTH MELTING SUGAR

This is one of the best-known of all edible-podded peas. The vines grow luxuriantly and reach a height of 6 to 7 feet. The pods are borne in great profusion all over the vine and they should be gathered when the seeds are just beginning to form. They are broken in pieces the same as string beans and make a delicious and palatable dish.

Per pkt. 10c;  $\frac{1}{2}$  lb. 20c; lb. 35c, postpaid

### GIANT LUSCIOUS EDIBLE POD

The pods, which are five to six inches long, are very fleshy, curved or scimitar shaped and of light green color. When young the pods are very tender and free from strings and when cooked are of superior quality and delicious flavor. The vines average about four feet high and are vigorous and productive.

Pkt. 10c; lb. 35c, postpaid

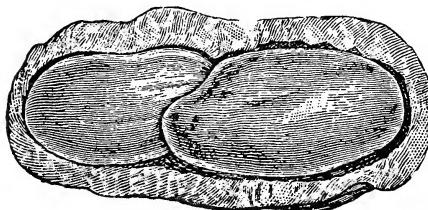
### DWARF GRAY SUGAR

Grows 18 inches high and produces a heavy crop of small flat pods, 3 inches long. The pods are gathered, broken and cooked like string beans when the peas begin to develop in the pod.

Per pkt. 10c;  $\frac{1}{4}$  lb. 20c; lb. 30c, postpaid

## PEANUT CULTURE

As the Peanut is a tender, warmth-loving plant the seed should not be planted until the soil has become warm and the Maple trees are out in full leaf. They succeed best in light, easily worked soil but can be grown in heavy, well-drained ground if kept well cultivated. When planting remove the shells, planting the kernels one in a place fifteen to twenty inches apart in the row. The cultivation is the same as for Bush Beans and the soil should be frequently hoed or cultivated to promote strong, rapid growth until the plants commence to flower. The flowers appear at the base of the stalk and when they appear loose earth should be hilled up around the stalks so that the nuts may bury themselves in the soil. When the foliage is touched by frost, lift or pull up the plants with the nuts attached and hang up to dry in a cool, airy room or shed.



MAMMOTH

## PEANUTS

**Mammoth Bush** (See illustration)—The plants produce a large quantity of nuts, adapted for culture in our northern climate, especially in light or sandy soils.

Pkt. (10 pods) 10c;  $\frac{1}{2}$  lb. 30c; 1 lb. 55c; 2 lbs. \$1.00

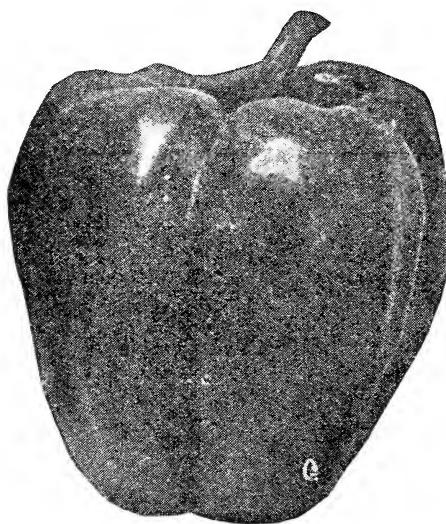
**Spanish**—This is an excellent forage plant for light land in hot, dry seasons. The tops are cut and cured for hay just before frost. The plants also set a large crop of the small nuts, which make an excellent fattening food for hogs.

Oz. pkt. 10c;  $\frac{1}{2}$  lb. 20c; 1 lb. 30c; 2 lbs. 55c; 5 lbs. \$1.25

## PEPPER

Peppers are used very extensively as a condiment. In Mexico the hot varieties are eaten raw as we would eat radishes, but the greatest use is for seasoning other dishes. The large, thick-fleshed, sweet varieties are eaten more extensively farther north and are served in various ways, green or ripe, with vinegar and salt, like tomato salad, or made into mangoes, by cutting one side, removing seeds and filling with chow chow pickles.

The culture of peppers is the same as for egg plant and the plants need quite as much heat to perfect them. Guano, hen dung, or any other bird manure hoed into the surface soil when the plants are about six inches high, will wonderfully increase the product and also improve the quality of the fruit.



**Chinese Giant**—This standard variety is larger than "Ruby King." It is very prolific for so large a pepper. The productiveness may be increased by pinching off the first or "King blossoms." The fruit grows 4 to 5 inches broad on top and of equal length, and quite uniform in size; the flesh is unusually thick, mild flavor and makes a very fine salad sliced and served like tomatoes. The color is green turning to glossy scarlet when ripe.

Per pkt. 10c;  $\frac{1}{2}$  oz. 40c; oz. 75c;  $\frac{1}{4}$  lb. \$2.00



**Pimento**—The sweetest Pepper grown. Very productive; produces medium-sized, brilliant red Peppers, maturing in about 135 days.

Per pkt. 10c; oz. 60c, postpaid



**California Wonder**—This new variety resembles Chinese Giant in shape, but has much thicker flesh. The fruit will average 4 inches in diameter at the top, tapering slightly. It matures its fruit somewhat earlier than Chinese Giant and is very prolific. Color glossy dark green, turning to crimson.

Per pkt. 10c;  $\frac{1}{2}$  oz. 40c; oz. 75c;  $\frac{1}{4}$  lb. \$2.00.

**Neapolitan**—Very early and productive; large and sweet; fruit of upright growth, 4 to  $4\frac{1}{2}$  inches long by 2 inches in diameter.

Per pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 85c.

## OTHER PEPPER SORTS

**Bull Nose**—Large blocky fruit.

**Cayenne**—Long red; very hot.

**Tabasco**—Hottest of all.

Per pkt. 10c;  $\frac{1}{2}$  oz. 35c; oz. 60c;  $\frac{1}{4}$  lb. \$1.75

**Red Chili**—Good hot pickling.

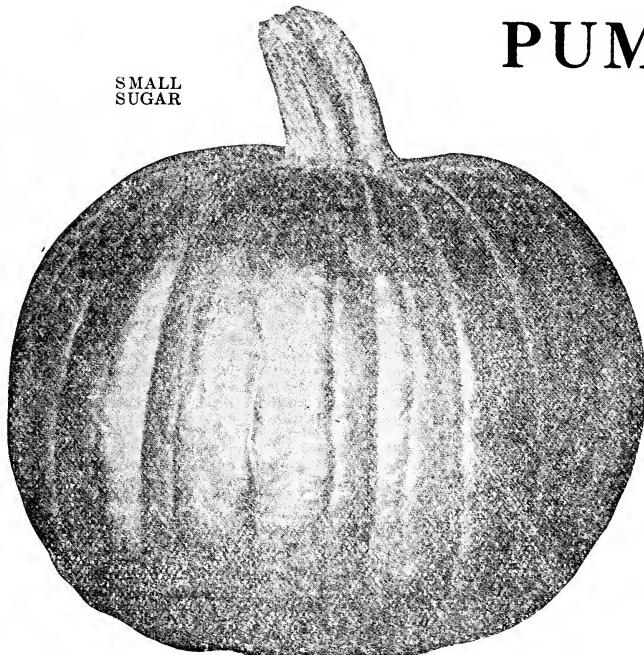
Per pkt. 10c;  $\frac{1}{2}$  oz. 30c; oz. 50c;  $\frac{1}{4}$  lb. \$1.60

## MIXED PEPPERS

**Mixed Peppers**—A great many varieties mixed. Space will not permit to name them all.

Pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb., \$1.00, postpaid

**PEPPER PLANTS**—See page 20

**SMALL SUGAR, or NEW ENGLAND PIE**

This variety is small but of most excellent quality for pies. The fruits are deep orange, 8 to 10 inches in diameter, round or somewhat flattened and slightly ribbed. The flesh is rich deep yellow, fine grained and very sweet.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 20c; lb. \$1.00, postpaid

**CONNECTICUT FIELD, or "BIG TOM"**

Vines of strong, vigorous growth and wonderfully prolific. Fruits will average fifteen to twenty inches in diameter; round or slightly oval in form. Smooth, hard, reddish-orange skin, slightly ribbed, with rich orange-yellow flesh. Frequently grown among corn to make a crop of pumpkins for feeding to dairy stock.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid

**"KING OF THE MAMMOTHS"**

This is the very best genuine strain of the true Mammoth Pumpkin. Fruits grow to enormous size, sometimes reaching two feet or more in diameter, and from one hundred to two hundred pounds in weight. Salmon-orange skin, very thick, bright-yellow flesh, which is fine-grained, tender and of excellent quality for pies. To raise the largest fruits, vines should be allowed ample space in which to grow—only one plant should be allowed to grow in a hill, and only the best fruit left on the vine.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid

**PUMPKIN SEED MIXED**—All varieties mixed; very popular. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 60c, postpaid

# PUMPKINS

Pumpkins are not so particular in regard to soils as melons or cucumbers, but in other respects are cultivated the same, though on a larger scale. They are generally raised between hills of corn, but may be planted with success in fields by themselves. The pumpkin more properly belongs to the farm than the garden, especially as it really mixes with and injures the quality of the finer squash.

**WINTER LUXURY**

The best flavored pie pumpkin grown; enormously productive; excellent keeper; medium size; color, golden-russet, finely netted; flesh, deep golden, sweet, tender and very thick; none better. Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.

**LARGE CHEESE**

Large, round, flattened fruits, with creamy-buff skin; averages two feet in diameter. An excellent keeper; it has thick flesh of extra fine quality. Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.

**JAPANESE**

Similar in size and form to the well-known Cushaw, but the skin is a deep green, with dark stripes, turning to a rich golden-yellow. Fruits mature early, the large neck is solidly meaty, and seeds are marked with curious indentations, resembling the characters of the Chinese alphabet. Flesh deep yellow, of fine quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

**GOLDEN OBLONG**

Very hardy and productive, pumpkins fifteen to twenty inches in length and eight to ten inches in diameter. Skin of a rich golden orange, thin but tough, making it almost as good a keeper for Winter as the hard-shelled squashes. Flesh is a light golden-yellow, of very rich, fine quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

**KENTUCKY FIELD**

Fruit flattened, the diameter being two or three times more than the length. Skin mottled light green and yellow, changing to rich cream color as it matures; flesh tender and of excellent quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid

**WHITE CUSHAW**

A popular crooked-neck variety with a hard creamy-white shell. Fruits two feet in length, with long, solidly-meat neck; seeds are all located in the lower bulb-like end. Thick flesh of fine quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

# SEED POTATOES

Write for special prices for larger quantities than listed

**DATE OF SHIPMENT**

Potatoes will not be shipped until in our judgment there will be no danger from freezing. Price, 5 lbs. 60c; 10 lbs. \$1.00, postpaid. These prices are for 1st, 2nd and 3rd zone only.

**"EARLIEST OF ALL"**

Is a shallow-eyed white skinned variety of vigorous growth. The tubers are smoother and have fewer eyes than most other varieties. While it is a very early potato it is also a good keeper.

**AMERICAN WONDER**

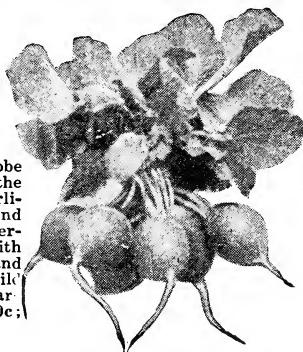
Vigorous vine, profuse bloomer, heavy setter. Used by truck gardeners for early crops. The elongated shape meets the Pacific Coast market demands.

# RADISHES

For forcing, sow in hotbeds or under glass in rich, sandy soil, made perfectly level. Scatter evenly over the surface from sixty to one hundred and fifty seeds to the square foot and cover with one-half inch of soil sifted on, and attend carefully to the watering and airing. If the bed is a good one, the whole crop can be marketed in twenty-one to forty days after planting. For open ground culture, sow on rich, sandy soil as soon as it is fit to work in the spring, in drills twelve inches apart and thin out the plants, if necessary, to prevent crowding. A good dressing of nitrate of soda will greatly stimulate growth and insure tender, brittle roots. Successional sowings from one week to ten days apart will keep up a supply. After the hot weather of summer begins, it is better to sow the summer and winter varieties, as they do not become tough and stringy nor pithy so quickly as the early sorts. Radishes are subject to root maggots, which make them useless for culinary purposes. We know of no certain remedy for this pest. We have found that the best preventive measures are to avoid the use of rank manure, and not to sow on ground where radishes, turnips or cabbages were grown the year previous. We have been very careful to secure the very best seed possible, and there is none sold under other names which is better than that of the varieties we offer.

## SAXA, THE EARLIEST RADISH ON EARTH

Saxa is a scarlet globe radish developed to the highest point as to earliness, uniform shape and high eating quality. Perfectly globe shaped with bright deep red skin and white solid flesh very mild in flavor. The tops are short. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.



**Crimson Giant**—A fine, bright-red radish, growing quickly to a large size. It is especially fine for bunching for early market from plantings in the open ground, being ready to market in from twenty-five to thirty days from time the seed is planted.

This radish is a deep globe in form; two inches in depth; one and one-half inches in diameter, with thin, tender skin of a deep crimson. The flesh is purest white, crisp, and of mild flavor. The roots are entirely free from the hollow center or pithy fibre of overgrown, small, extra early sorts, even when twice as large!

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

**Sparkler (Scarlet Turnip White Tip)**—The Best for the West—Most attractive small round roots with bright scarlet top, a clear white base, and small, slender taproot. The juicy flesh is pure white in color and of agreeably snappy flavor. Scarlet Turnip White Tip is most popular with many market gardeners who grow for an early and choice market. Our strain of this variety is extra fine.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. \$1.00



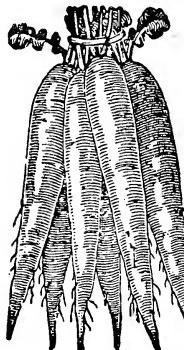
FRENCH BREAKFAST

**French Breakfast**—Is a beautiful radish of true oblong or olive shape. The color of the skin is bright carmine, shading to clear white in the lower portion. The flesh is white, firm and crisp; juicy, mildly pungent, and tender. It is well adapted for forcing in the greenhouse and hotbed. One of the leading early varieties for market use or home growing.

Pkt. 5c; oz. 15c; 4 ozs. 45c;  $\frac{1}{2}$  lb. 70c; lb. \$1.25, postpaid

**White "Icicle"**—The finest and longest of the very early pure white varieties. Planted in spring and the radishes are ready for use in twenty to twenty-five days. Their long, slender form and pure paper-white skin are most attractive when bunched for market. This radish is not only crisp and tender when young, but retains these qualities until the roots attain large size, so that it will remain in fine condition longer than any other first-early variety. It is excellently adapted for forcing purposes or successive sowing in the open ground, and gives a continuous supply of tender, crisp radishes throughout the season.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid



**Early Long Scarlet Short Top**—The finest strain of this most popular radish. The long, slender, handsomely-colored roots are most attractive in appearance. They are ready in about twenty-five days; crisp, brittle and of choicest quality. They reach a length of five to six inches, growing half out of the ground. Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; per lb. \$1.00, postpaid.

**Long Black Spanish**—Black skin, white flesh. Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 45c; per lb. \$1.50, postpaid.

**Round Black Spanish**—The favorite winter Rettig of the United States. Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 45c; lb. \$1.50

**White Strasburg**—A fine solid summer radish of large size. Per oz. 10c, postpaid

**California Mammoth White Winter**—Long; of large size. Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50, postpaid

**Round Scarlet China**—Extra fine round roots for winter. Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50, postpaid

**Chinese Rose, or Scarlet China**—Excellent; good keeper. Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 90c, postpaid

**New White Chinese**—Best for autumn; of immense size. Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid

## MIXED RADISH SEED

All kinds, colors and styles. A great variety; they will become ready for the table early, medium and late. You always have some that are just right, sweet and juicy. This mixture is for a small garden, where space is limited, and one sowing does for the whole season.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid

## TRY THIS

Plant the little round radishes in the same row at the same time with beets or carrots. The radishes will break the way for the beets and carrots and will be ready for pulling by the time they need the room.

## JAPANESE RADISHES



**Radish—Nerima-Long**

**Nerima Long (Mikado)**—"Nerima" is the name of the province of production, near Tokyo, Japan. This is a most valuable one, large and long (as long as 3 feet), and the end of it is round in form, snowy white and bright color and very fine test with sweet flavor. Nerima can be used in all styles of cooking and pickle; hardy and good keeper. We have had long experience of production of Nerima successfully and we are earnestly presenting this to all good farmers and garden lovers.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c, postpaid

Our Mail-Order Trade, growing steadily from year to year, is one result of your confidence in us and our confidence in you. No business can be truly successful unless the transactions are mutually profitable. Each season we strive to render better service.

## Rhubarb or Pie Plant

**Culture**—Rhubarb succeeds best in deep, somewhat retentive soil, and the richer this is and the deeper it is stirred the better. Sow in drills an inch deep, and thin out the plants to six inches apart. In the fall transplant into very highly-manured and deeply-stirred soil, setting them four to six feet apart each way, and give a dressing of coarse manure every spring. The stalks should not be plucked until the second year, and the plant never allowed to exhaust itself by running to seed. Per pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50. Rhubarb roots, by express, not prepaid, 10c each; \$1.00 per doz.; by mail, prepaid, 15c each; \$1.50 per doz.

**WRITE FOR SPECIAL QUOTATIONS ON LARGE QUANTITIES**

## Salsify or Vegetable Oyster

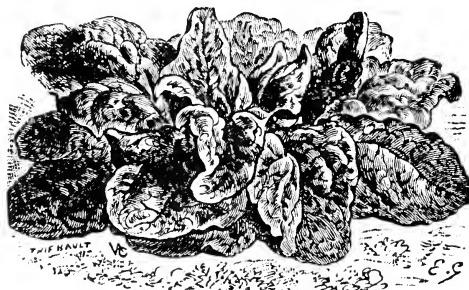
**Culture**—It succeeds best in a light, well-enriched soil which should be stirred to a good depth. Coarse and fresh manure should be avoided, as it will surely cause the roots to grow uneven and illshaped. Sow early and quite deep, giving the general culture recommended for parsnips. The roots are perfectly hardy, and may remain out all winter, but should be dug early in spring, as they deteriorate rapidly after growth commences. Store a quantity for winter use in a pit or in a cellar packed in damp earth or sand.

### SANDWICH ISLAND MAMMOTH

**Sandwich Island Mammoth**—This grows uniformly to an extra large size, averaging fully double the size and weight of the roots of the old variety. The roots, notwithstanding their extra large size, are of very superior quality and delicate in flavor.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75, postpaid

## SPINACH



Should be planted in very rich ground, the richer the better. Sow in drills twelve to eighteen inches apart, and begin thinning out the plants when the leaves are an inch wide. All should be cut before hot weather, or they will be tough and stringy. For early spring use sow early in autumn and protect the plants with a light covering of leaves or straw, or plant as soon as the land can be worked in the spring. Under favorable conditions, the leaves may be large enough for eating in eight weeks.

**Victoria**—The foliage is heavy, the broad, dark-green leaves being of the true Savoy appearance, and of the finest quality. It remains in prime condition from two to three weeks after nearly all other varieties have started to seed. Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; per lb. 60c, postpaid.

**Thick-Leaved Round**—Produces large, thick dark-green leaves, somewhat crumpled.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid

**Norfolk Savoy-Leaved (Bloomsdale)**—The leaves are numerous, curled and wrinkled.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 60c, postpaid

**Long Standing Prickly**—This variety is an improved strain of the long standing type of spinach that matures a little later than the round seeded sorts. The plant is very large at maturity, very vigorous and hardy, and yields a large quantity of medium sized leaves, which are usually rounded at the end, quite thick and uniformly dark green. Seed prickly. It is usually planted in the Fall, but is also well adapted for Spring use. Sometimes called Prickly Winter.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 60c, postpaid

**Long-Standing**—Leaves large, thick, fleshy and crumpled. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 60c, postpaid

## SPINACH—Continued

**King of Denmark Spinach "Antvorskov"**—This new variety of Spinach will eventually replace all others for spring planting, as it is very slow to go to seed, continuing to grow and hold its fine quality for weeks after all other sorts have gone to seed. It makes a very quick and low growth, producing an abundance of dark green leaves which are of large size and very much crumpled. It is ready for use as soon as other varieties of spinach and the leaves hold up remarkably well after being cut. The quality is excellent and we consider it one of the most valuable additions to the vegetable varieties that has been made in recent years, both for growing in the home garden and for market.

### NEW ZEALAND SPINACH (*Tetragonia Expansa*)

While this is not a member of the Spinach family proper, it may well be classed as such, since it furnishes an abundance of delightful "greens" throughout the summer and right up to cold weather. Both the leaves and the stalks of the plant are very fleshy and extremely brittle and of the finest quality when cooked.

Do not sow seed until May 1st or when the soil is fairly warm, as it is susceptible to cold and will not germinate in cold soil. Plant in rows 3 ft. apart and thin the plants to stand 2 feet apart in the rows. Soak the seed before sowing.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 60c; 5 lbs. \$2.25, postpaid

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.15

## SQUASH

The Squash is one of the most nutritious and valuable of all garden vegetables. The summer varieties come to the table early in the season, while the winter sorts can be had in perfection from August until the summer varieties are again in condition. Few farmers appreciate the value of winter squash as food for stock. We think an acre of squash, costing no more to cultivate and much less to secure, will give usually as much food available for feeding stock as an acre of corn, and we strongly urge our readers to try a "patch" for this purpose.

**Culture**—Squash plants are very tender and sensitive to cold, and planting must be delayed until warm weather. The general methods of culture are the same as those given for cucumbers and melons, but squash is less particular as to soil. The summer varieties should be planted four to six feet apart each way, and the winter sorts eight or ten. Three plants are sufficient for a hill. In gathering the winter sorts care should be taken not to bruise or break the stem from the squash as the slightest injury will increase the liability to decay.

### TABLE SQUASHES

#### MAMMOTH WHITE BUSH SCALLOP

The fruit is a beautiful, clear waxy-white, instead of the yellowish-white so often seen in the old Early White Bush Scallop, and is superior to that variety in size and beauty. The handsomest of the scalloped squashes. Per pkt. 5c; oz. 10c; 2 oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 80c, postpaid.

#### GIANT CROOKNECK

This strain is equally as early as the common small-fruited variety, while the squashes grow to a much larger size, measuring from eighteen inches to two feet in length. Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid.

#### BURPEE'S BUSH FORDHOOK SQUASH

In this new true bush type the plants can be grown much more closely together. The fruits are rather shorter and thicker than those of the running type; they are also thicker-fleshed, and have a smaller seed cavity. They are unsurpassed for baking, frying, or making pies, while stored in a dry place they will keep in good condition until the following June.

Per pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50, postpaid

#### BURPEE'S FORDHOOK SQUASH

This is the most desirable running variety for either summer or winter use. The vines are of strong, vigorous growth and wonderfully productive. Fruits oblong in form, eight to ten inches in length, slightly rigid, smooth, thin, yellowish skin, flesh very thick and of a light straw-yellow. Either for baking like sweet potatoes or making pies during the winter, the quality is unsurpassed.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50, postpaid

#### BANANA

The squash grows from one to two feet in length. The skin varies from a bright yellow to a dark olive green. Flesh firm and solid, of beautiful orange-yellow and excellent quality. It keeps from one season until another. When quite young it is excellent to cook as a marrow.

Per pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50, postpaid

#### "THE DELICIOUS"

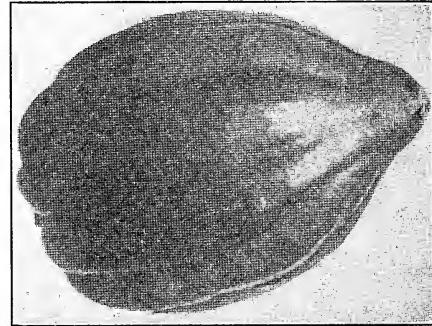
The squashes weighing from five to ten pounds, vary both in color and form, but are uniformly delicious in flavor and splendid winter keepers. The dark-orange flesh is very thick and fine grained.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

#### DELICATA

A small-fruited variety, suitable for both summer and winter use; oblong, slightly ribbed, with orange-yellow skin, striped with dark-green. Flesh thick and solid. Cooks dry, and is of rich flavor.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid



#### TABLE QUEEN, "Des Moines"

##### Called Danish Squash on Portland Market

A comparatively new variety, which has attained great popularity in Iowa and Minnesota the last two years. Market gardeners have found it their best seller. The enthusiasm of customers entitles it to the place among Squashes accorded to "Golden Bantam" in Sweet Corn. In size Table Queen equals a fair sized husked cocoanut and a half, baked, serves one person amply. This avoids the waste often resulting from the use of larger varieties. The shell is unusually thin and it does not require over twenty minutes for baking or boiling. A good way to prepare is to cut in half, place a lump of butter in one half, top with the other and then bake whole. This Squash is ready before the Hubbards and yet stores equally well. The color is dark green changing to bright golden after picking and storing. The meat is dry and mealy. It yields enormously, a few hills furnishing an ample supply for a good sized family. Introduced by Vaughn Seed Store.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50

#### BOSTON MARROW

A large fruited, hard-shelled sort, for winter use, having bright orange skin and deep orange flesh. Vines of strong running growth, very productive; fruits thickish-oval.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid

#### VEGETABLE MARROW

This is a most important vegetable in the English market, but little known in this country. The fruit is generally eaten when less than half grown, as the flesh is then very tender and marrowy.

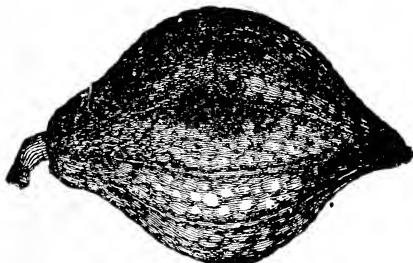
Per pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75, postpaid

#### MIXED SQUASH SEED

All sorts, shapes and colors. Very popular.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid

## SQUASHES—Continued



## Four Types of the Most Popular Winter Squash

## TRUE HUBBARD

This is the well-known winter squash, now grown so largely throughout the country. Vines of strong running growth; fruits large, olive-shaped, with dark-green skin and very rich flesh. An excellent keeper and of splendid quality. Our strain is extra fine (see the illustration, from photograph, above).

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid

## WARTED HUBBARD

This is similar in size and quality to the well-known Hubbard, while the large, dark, olive-green fruits are supposed to be slightly more heavily-warted. Very handsome in appearance; an excellent keeper and of splendid quality.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid

## RED, or GOLDEN HUBBARD

The heavily warted skin is of rich orange-yellow, turning to deep salmon-red when ripened. It is equally as productive and fine in quality as the original Hubbard Squash.

Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid

## “KITCHENETTE” (Hubbard)

A small edition of the Hubbard Squash developed by inbreeding and introduced by the Minnesota Experiment Station. It was named “Kitchenette” because it is the smallest Hubbard. The squash average about 5 lbs. They run uniform in size and appearance. They are a glossy dark green, fully equal to any Hubbard for quality and keep as well in storage.

Per pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 85c; lb. \$3.0

## COCOZELLE BUSH

This is also known as Italian Vegetable Marrow. The oblong fruits measure 12 to 16 inches in length. The skin is deep green, marbled with yellow and dark green stripes. A very productive variety. Per pkt. 10c; oz. 25c; 4 oz. 50c;  $\frac{1}{2}$  lb. 80c; lb. \$1.35, postpaid.

## COCOZELLE VINING

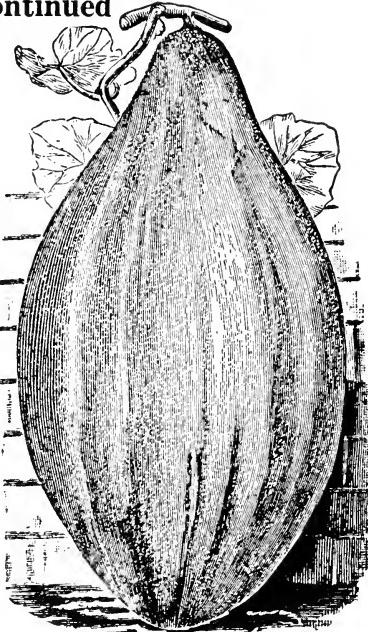
Same price as above.

## ZUCHINI

Similar in all respects to Bush Cocozele except the fruits are mottled dark and light green, giving them a greenish-gray appearance. Per pkt. 10c; oz. 25c; 4 oz. 25c;  $\frac{1}{2}$  lb. 80c; lb. \$1.25, postpaid.

## MAMMOTH CHILI

A very large-fruited variety. Under special cultivation the fruits attain a very great weight and are of attractive appearance. The skin is quite smooth, but with broad open netting, and of a rich orange-yellow. Flesh very thick, of a rich yellow coloring, fine-grained and sweet. Per pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.25, postpaid.

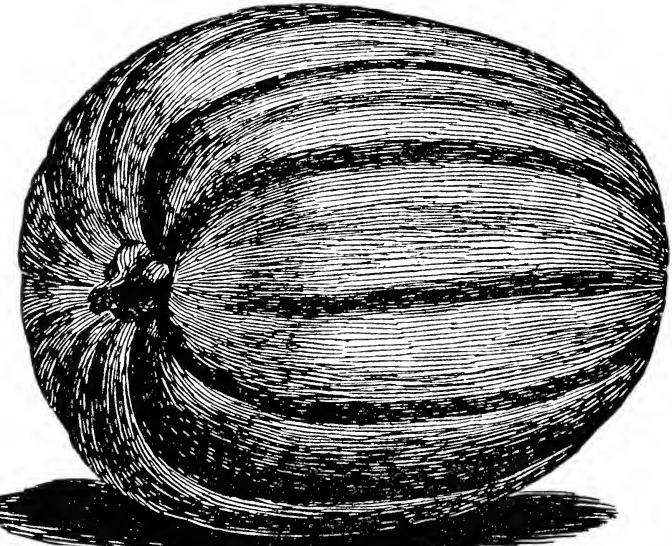


MAMMOTH WHALE SQUASH

## MAMMOTH WHALE

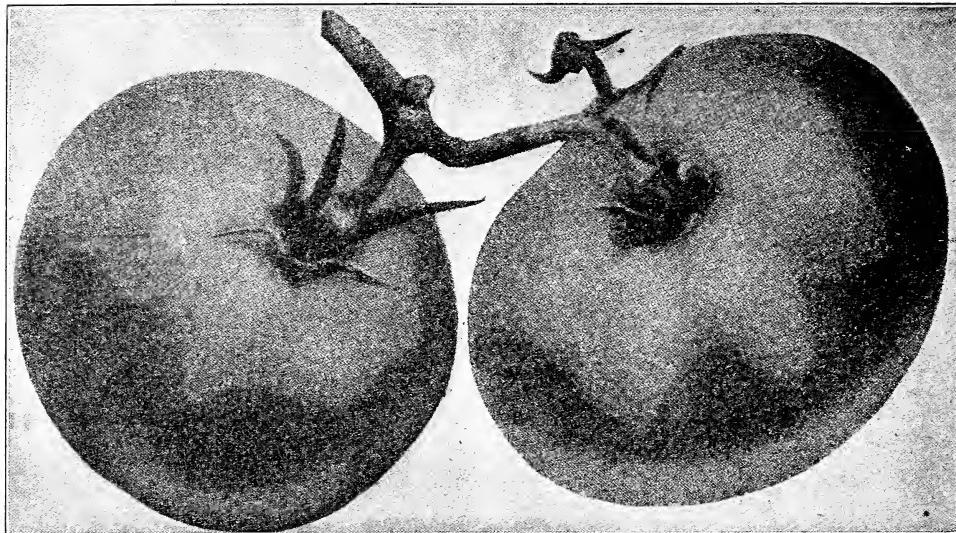
(See illustration)—This is the “Jumbo” of the squash family, and creates great attention wherever grown or placed on exhibition. It is an extra large-fruited sort, quite distinct in form and appearance. The squashes grow from two and a half to three feet in length, with a slight neck at the stem end. The large seed end is swelled to a width of twelve to eighteen inches and slightly flattened, giving a most distinct appearance, which suggests the name—“Mammoth Whale.” The skin is of a dark olive-green with slight stripes of a lighter tinge. The fruits frequently attain more than one hundred pounds in weight. Flesh firm and solid, of beautiful orange-yellow and excellent quality.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.25, postpaid



MAMMOTH CHILI

# Tomato



**Culture**—Tomatoes do best on light, warm, not over rich soil, and success depends upon securing a rapid, vigorous and unchecked growth during the early part of the season. Sow in hotbeds from six to eight weeks before they can be set out of doors, which is when danger from frost is past; when the plants have four leaves transplant into shallow boxes or cold frames, setting them four or five inches apart; give plenty of air, and endeavor to secure a vigorous but steady and healthy growth, so that at the time of setting in the open ground they will be strong and stocky. Even a slight check while the plants are small will materially diminish their productiveness. Set out of doors as soon as danger from frost is over, but before doing so harden off the plants by gradually exposing them to the night air, and by the withdrawal of water until the wood becomes hard and the leaves thick and of a dark-green color. Transplant carefully and cultivate well as long as the vines will permit.

To insure best results in respect to early ripening, as well as the amount and perfection of fruit, it is advisable to train up and trim the vines, especially if the patch is rather small. When the plants have been properly started and are six to ten inches high, they will begin to throw out branches. Select one of the largest and most vigorous of these and pinch off all others except this one and the main stem. Care must be exercised not to pinch off the fruiting branches, which, as they appear, can be distinguished by the buds that are formed very early. In a short time these two remaining branches will become equally vigorous, and as ordinary varieties will grow four to six feet high during the season, they should be securely tied at intervals of about ten inches to a long stake, preferably two inches square which has been securely set in near the root of the vine. Fruit will set to almost any height desired if all side branches are kept trimmed off.

By such a method of training and trimming the fruits are kept clear from the ground, and with free access to sunlight they ripen much earlier; the vitality, otherwise exhausted in superfluous branches and leaves, is utilized in forming fruits of largest size, greatest perfection of shape and best quality.

## CHALK'S EARLY JEWEL

The largest, smoothest and finest-flavored extra early bright red tomato! Within a week to ten days as early as Spark's Earliana, it is even a heavier cropper, with tomatoes of larger size and sweeter flavor—produced continuously throughout the season. Of compact growth, the plants are fairly loaded with fruit. The tomatoes are uniformly of good size—seventy-five will fill five-eighths bushel basket. The large, handsome fruits are very solid and deep through, being almost round, or ball-shaped. Color brightest scarlet, ripening right up to the stem without any cracks or green core. The thick flesh is very solid, with comparatively few seeds, and of fine, sweet flavor; skin thin, but sufficiently strong to make it a good shipper. Per pkt. 5c;  $\frac{1}{2}$  oz. 25c; oz. 40c;  $\frac{1}{4}$  lb. \$1.00; per lb. \$4.00, postpaid.

## BONNY BEST

An early, scarlet-fruited variety which has proven a success all over the country. It is from ten days to two weeks earlier than Chalk's Early Jewel, which it otherwise resembles. It is smooth, very even in size, very solid, and also very prolific. It is one of the best house-garden, canning and shipping tomatoes in existence.

Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. \$1.00; per lb. \$4.00, postpaid

## BEEFSTEAK or PONDEROSA

In addition to its ponderous size it is also very solid, there being but few seeds. In color it is a beautiful crimson throughout. Although so large it is quite early.

Per pkt. 5c; oz. 50c;  $\frac{1}{4}$  lb. \$1.50; per lb. \$5.00, postpaid

## SPARK'S EARLIANA

The plants are compact in growth with short, close-jointed branches, setting fruits very freely in the center. An entire plant may be covered with an ordinary bushel corn basket—yet so freely are the fruits set that each plant will produce a five-eighths bushel basket of tomatoes during the season of about four weeks, which covers the bearing period of the early plants.

The tomatoes are quite uniform in size and of smooth regular form, averaging three inches in diameter and from two to two and a half inches in depth; they are fleshy, solid and excellent for shipping purposes. Choice seed of this strain is extra selected and far superior to the stock usually sold. Per pkt. 5c;  $\frac{1}{2}$  oz. 25c; oz. 40c; 2 oz. 70c;  $\frac{1}{4}$  lb. \$1.00; per lb. \$4.00, postpaid.

## BEAUTY

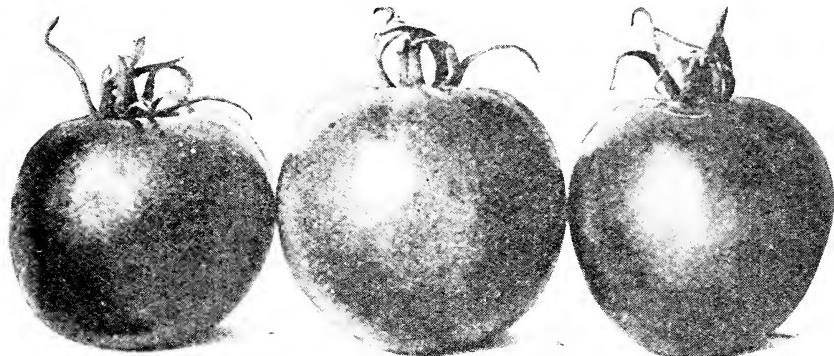
A rather early, tall variety; very prolific, with good-sized smooth fruit of a purplish-carmine color.

Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; per lb. \$2.25, postpaid

## DWARF CHAMPION

This is sometimes sold as the "Tree Tomato." It is a second early or main crop, purplish pink variety, especially desirable where garden space is limited. The vines are about two feet high, vigorous, upright and compact. The fruits are medium sized, exceptionally smooth and of very good quality. Our stock is a very superior strain with more even, smoother fruit than the original. Per pkt. 5c; oz. 50c; 2 oz. 85c;  $\frac{1}{4}$  lb. \$1.40; per lb. \$5.00, postpaid.

# Tomatoes



MARGLOBE WILT-RESISTANT TOMATO

## MARGLOBE WILT-RESISTANT

Probably no tomato has created such intense interest since the introduction of our Wood's Famous Brimmer. It was bred primarily to produce a red wilt-resistant tomato of the Globe type and exceeded all expectations. It is not only wilt-resistant, but is resistant to "nail-head rust" as well; is a splendid bearer, the fruits averaging one-half pound, firm, thick and mildly acid. Ripens perfectly, does not crack easily and is of very superior quality. The fruits are of good size, smooth, solid, deep from stem to blossom, and are borne in clusters of 5 to 7 fruits. Marglobe has proved its ability to withstand long periods of wet and unfavorable weather conditions. Per pkt. 10c; oz. 50c; 2 ozs. 90c;  $\frac{1}{4}$  lb. \$1.65; lb. \$6.00.

## STONE

The best main crop variety for all purposes and largely used for canning. Vine tall and prolific. Fruit smooth, large and uniform. Color bright scarlet.

Per pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.25, postpaid

## SMALL FRUITED TOMATOES

The fruit of these are largely used for making fancy pickles, preserves, etc. The plants are extremely productive.

### YELLOW PLUM

The fruits average two inches in length and one inch in diameter, of a bright lemon-yellow; are solid, fleshy, and of excellent flavor.

Per pkt. 5c; oz. 50c

### YELLOW PEAR

Similar to the Yellow Plum, but the fruits have a slim neck or distinct pear shape.

Per pkt. 10c; oz. 50c

**Small Fruited Tomatoes Mixed, 10c per package.**

## MARKET GARDENERS

Where do you buy your seeds? Why—mostly through the agent. He is a nice fellow, you say, and you buy even from the agent that knocks the other seedhouses, that tells you to cancel the order, you have placed in good faith, with some other seed agent. Why all this?

Well, well—the agent tells you not to worry as to pay, just take your own time—many of you do—why worry? Let the other fellow do the worrying. But you overlook that your agent charges you very nice prices, for every kind of seed you order. This he has to do. It costs lots of money to sell on terms, the railroads do not carry seed agents for nothing, the hotel keeper has to get his and you pay for all that, you also pay for the chaps that never or seldom pay.

You say, the agent keeps me posted as to what is new in seeds, what varieties are the most profitable. Our catalog does that too and more.

Are not your expenses heavy enough as it is? To cut expenses down, would not that be for your own good? Why not make a profit for yourself right from the start—by saving on your purchase of seeds? Why not send a list of what you need to us for lowest pricing?

## GOLDEN QUEEN

### The Finest of the Large Yellow Tomatoes

The superior flavor of the yellow varieties is bringing them into favor as table fruit, and those who think of a yellow Tomato as the rough fruit of the old yellow sorts will be surprised at this smooth, beautiful fruit which though large, is as smooth and well-shaped as the best of the red varieties, and of a fine and distinct flavor.

Per pkt. 5c; oz. 50c,  $\frac{1}{4}$  lb. \$1.75, lb. \$5.00, postpaid

### IMPROVED TROPHY

Vigorous grower, producing heavy crops of deep red fruit; fine for all purposes. It is rather late. Per pkt. 5c; oz. 25c; 2 ozs. 40c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50, postpaid.

### JOHN BAER

One of our earliest and most profitable varieties. Fruit globe shaped, bright scarlet in color, good size; solid, coreless and with few seeds. Vigorous and prolific.

Per pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.00; lb. \$4.00, postpaid

### MIXED TOMATO SEED

This is unusually popular. We have sold thousands of packages of this mixture and find that our customers get a great deal of pleasure in growing these as it contains all sorts and colors, large and small. Try a package for 10c.

### RED PEAR-SHAPED

This is a leading favorite for preserves and also to make "tomato figs." The fruit is bright red, of true pear shape, and of rich distinct flavor. The larger plum-shaped red tomato, often sold under the same name, is not nearly equal to the true variety.

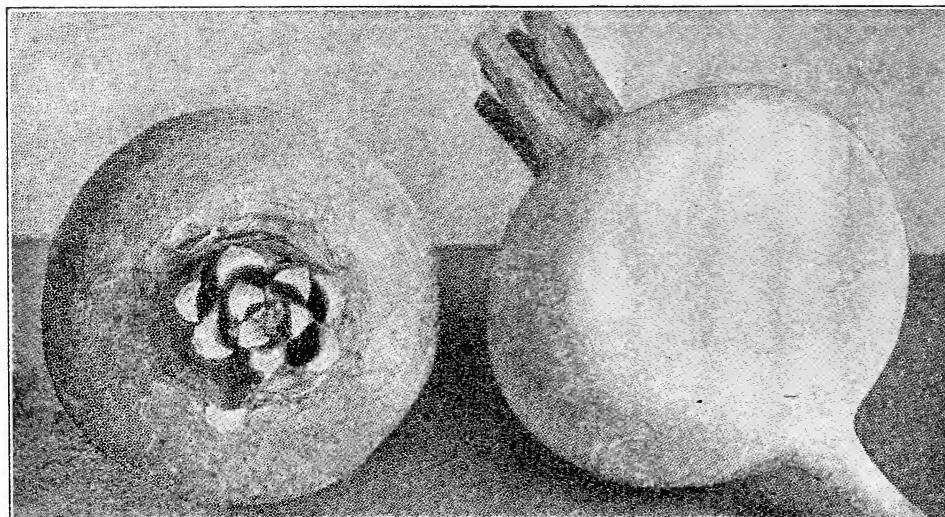
Per pkt. 10c; oz. 50c

### STRAWBERRY, or HUSK TOMATO

Plants of low-spreading growth and immensely productive. The small yellow fruits are each enclosed in a husk. Of very sweet flavor, highly esteemed for preserving or making pies. They are also excellent to eat raw as fruit.

Per pkt. 10c; oz. 50c

# TURNIP



PURPLE TOP WHITE GLOBE—The best for the Northwest

Sow in drills about two feet apart and half an inch deep, or sow broadcast, but in either case be sure to have the ground rich and freshly stirred. Thin early and keep free from weeds, so that the young plants will not be checked in growth. Any over-crowding will result in rough and poorly-flavored roots. It is important to get the spring and summer crop started very early, so that the turnips may have time to grow to sufficient size before hot weather causes them to become tough and bitter.

In Middle and Western States sow for fall and main crop middle of July to last of August, and in the manner given for spring sowing. In the field turnips are often sown broadcast, though in most cases better results are obtained by drill culture.

### EXTRA EARLY WHITE MILAN

This variety is remarkably early. The tops are very small, strap-leaved, upright and compact, so that rows can be planted close together. The roots are clear white, very smooth, flat and are of best quality when only about two inches in diameter. The flesh is clear white, mild, sweet and tender. Very desirable for early use, especially for forcing. Per pkt. 5c; oz. 15c; 2 ozs. 25c; ¼ lb. 40c; lb. \$1.50, postpaid.

### EXTRA EARLY PURPLE TOP MILAN

Similar to Extra Early White Milan, except that the roots are a little flatter and an attractive purple-red on the upper portion. Well adapted for forcing. All in all, the Milan turnips leave nothing more to be desired in the way of an extra early garden turnip. Per pkt. 5c; oz. 15c; 2 ozs. 25c; ¼ lb. 40c; lb. \$1.50, postpaid.

### EARLY PURPLE TOP, STRAP LEAVED

A very early strap-leaved variety, very extensively used for the table. The leaves are few, entire, upright in growth. The roots are flat, of medium size, purple or dark red above ground, white below. The flesh is white, fine-grained and tender. Roots when in best condition for table use are about two and one-half inches in diameter but can be grown much larger for stock feeding. This sort is also known as Early Red Top, Strap Leaver. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 20c; lb. 65c, postpaid.

### COW HORN or LONG WHITE

This variety is clear white, except a little shade of green at the top of the root, which is long and carrot-like in form, cylindrical but usually ending in a point, and slightly crooked. The roots are often twelve to fifteen inches long by about two and one-half inches in diameter and grow about three inches out of the ground. The flesh is fine grained and well flavored, and for table use is in best condition when the roots are about two inches in diameter. Desirable for stock feeding and has obtained considerable favor as a market sort. The variety is of very rapid growth and well adapted for fall and early winter use. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 25c; lb. 80c, postpaid.

### EARLY WHITE FLAT DUTCH, STRAP LEAVED

A very early, white turnip, extensively used for the table, especially in the southern states. The leaves are entire, toothed on the margin but not divided or lobed, and are upright in growth. The roots are of medium size, flat, very white fleshed, fine grained and sweet. The roots when in best condition for table use are about two and one-half inches in diameter. This variety is also grown as a field crop. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 20c; lb. 65c, postpaid.

### WHITE EGG

An early, oval or egg-shaped variety with smooth, clear white roots of medium size which grow half out of the ground. The tops are small with leaves distinctly cut. The flesh is clear white, firm, fine grained and sweet. The roots of this quick growing garden sort when in best condition for use are usually about two inches in diameter and about three and one-half inches long. Per pkt. 10c; oz. 15c; 2 ozs. 20c; ¼ lb. 25c; lb. 80c, postpaid.

### PURPLE TOP WHITE GLOBE

This excellent table variety is globular in shape, of good size and very attractive appearance. The roots are large, purple or dark red above ground, white below. The flesh is white, fine grained and tender. The roots when in best condition for the table are about three inches in diameter, but can be grown much larger for stock feeding. This sort keeps well for so early a variety and is one of the best for market use. It is also known as Red Top White Globe. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 20c; lb. 65c, postpaid.

### LARGE WHITE NORFOLK

This sort is usually grown for feeding stock, and although a little coarse in texture it is of good quality for the table, but for the latter purpose is in best condition when the roots are about 4 inches in diameter. The roots are white and smooth, grow to the largest size, and are globe-shaped or slightly flattened. The variety is allowed to stand out during the winter in the south where the tops are used for greens. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 20c; lb. 65c, postpaid.

## TURNIP—Continued

### LARGE AMBER GLOBE

One of the best yellow fleshed varieties, grown usually for stock feeding. The roots are of large size and of globular shape. The skin is clear yellow except the top which is tinged with green. The flesh is light yellow, fine grained and sweet. The variety keeps well and is a good cropper.

Per pkt. 10c; oz. 15c; 2 ozs. 20c;  $\frac{1}{4}$  lb. 25c; lb. 80c

### POMERANIAN WHITE GLOBE

One of the most productive kinds and in good, rich soil the roots will frequently grow to twelve pounds in weight. The roots are globe-shaped or slightly flattened; skin very white and smooth. This sort is used for stock feeding and is also good for table use if pulled when the roots are not more than four to five inches in diameter. Where the winters are mild the tops are used for greens. Per pkt. 5c; oz. 10c; 2 ozs. 15c;  $\frac{1}{4}$  lb. 20c; lb. 65c, postpaid.

### MIXED TURNIP SEED

All sorts and varieties, long, round, oblong, etc.  
Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; 1 lb. 50c, postpaid

## YELLOW BORTFELDER or YELLOW COW HORN

Pkg. 5c; oz. 10c; 2 oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 80c, postpaid

## RUTABAGAS or SWedes

**Culture of Ruta Bagas**—Sow the seed from about the middle of June to the middle of July. Ruta Bagas require ground enriched with well-rotted manure, and should be sown in drills about two and one-half feet apart and the young plants thinned eight to twelve inches apart in the row. Keep free from weeds by frequent cultivation, and when the roots are full grown and before hard freezing weather, pull them, cut off the tops and store in a root cellar or pit. Ruta Bagas are sometimes sown broadcast and left to take their chances with the weeds and bugs. So treated, the crop is seldom a success, though occasionally on new clearings, free from weed seed, fair results are obtained.

### MONARCH or TANKARD

This is a yellow-fleshed sort, having very large tankard-shaped roots, with relatively small necks, and tops. Color purplish-crimson above ground, yellow below; flesh very solid, fine-grained and of the best flavor.

Per pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

**MIXED RUTABAGA SEED, VERY POPULAR**—Pkg. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid

## TOBACCO

### CONNECTICUT SEED LEAF

An old, well-known variety. Per pkt. 5c; oz. 25c

### GENERAL GRANT

It produces leaves forty-four inches in length, and matures as far north as Duluth, Minnesota.

Per pkt. 10c; oz. 40c

### HAVANA

Grown from seed imported from Vuelta de Abajo.  
Per pkt. 10c; oz. 40c, postpaid

### IMPROVED WHITE BURLEY

This strain is much superior to the regular White Burley.

Per pkt. 10c; oz. 40c

## HERB SEEDS

### Pot, Sweet and Medicinal

Herbs in general delight in rich, mellow soil. Those marked with a (\*) are perennial.

All the Flowering Herbs 10c per Packet, unless Otherwise Priced

Anise.—Seeds aromatic; used medicinally.

\*Balm.—For culinary purposes.

Basil.—Sweet; for flavoring soups.

Borage.—For flavoring; also bee pasture.

Caraway.—For flavoring.

\*Catnip.—Mild nervine; pkt. 15c.

Coriander.—Used for flavoring.

Dill.—Used medicinally and for pickles.

\*Fennel.—Flavor of Celery.

\*Horehound.—Bitter; for tonic.

\*Hysop.

\*Lavender.—True, for fragrance.

\*Marjoram.—Sweet, for flavoring.

\*Rosemary.—Aromatic oil. Pkt. 15c.

Summer Savory.—For flavoring.

\*Sage.—For tea flavoring and dressings.

\*Thyme (broad leaf).—For soup. Pkt. 15c.

## PLANTS

### ROSEMARY

Infusions of the leaves are used in medicinal beverages. Produces an aromatic oil. Each 25c, postpaid

### TARRAGON

True—Used for cooking purposes. (This variety does not produce seed.) Each 35c, postpaid



# BUTZER'S

# FLOWERS

Flower Seeds For Different Purposes  
For description and prices see general list

#### PERENNIALS

Achillea  
Aconitum  
Adonis  
Agrostemma  
Astroemeria  
Alyssum  
Anchusa  
Anemone  
Aquilegia  
Arabis  
Asperula  
Aster  
Aubertia  
Auricula  
Bellis  
Bocconia  
Campanula  
Candytuft  
Centaurea  
Cerastium  
Chelone  
Chrysanthemum  
Coreopsis  
Delphinium  
Dianthus  
Digitalis  
Edelweiss  
Eremurus  
Erigeron  
Erysimum  
Erinus  
Gaillardia  
Geum  
Hypsophila  
Helenium  
Helianthus  
Heuchera  
Hibiscus  
Hollyhocks  
Incarvillea  
Lathyrus  
Linaria  
Linum  
Lobelia  
Lupinus  
Lynchnis  
Pansies  
Pentstemon  
Phlox  
Physalis  
Polyanthus  
Poppies  
Primula  
Pyrethrum  
Romneya  
Rudbeckia  
Scabiosa  
Silene  
Statice  
Stokesia  
Sweet William  
Veronica  
Viola  
Violet  
Petunia  
Thunbergia

#### FOR EDGING BORDERS

Ageratum  
Alyssum  
Armeria  
Bellis  
Candytuft  
Centaurea  
Lobelia  
Marigold  
Mysotis  
Nasturtium  
Nigella  
Pennisetum  
Petunia  
Phlox, Dwarf  
Portulaca  
Pyrethrum  
Sweet William  
Sweet Pea, Cupids  
Tagetes  
Viola  
Zinnia haageana

#### FOR HANGING BASKETS, WINDOW BOXES, etc.

##### Upright

Pansy  
Viola  
Ageratum  
Heliotrope  
Primulas  
Candytuft

**FOR HANGING BASKETS, WINDOW BOXES, etc.**

Drooping

Alyssum  
Convolvulus  
Kenilworth Ivy  
Lobelia  
Nasturtium  
Petunia  
Thunbergia

#### ROCK GARDEN

Alyssum Saxatile  
Compactum  
Anemone Pulsatilla  
Aquilegia Alpina  
Aquilegia Coerulea  
Arabis Alpina  
Armeria Formosa  
Armeria Formosa  
Hybrida

Armeria Laucheaena  
Armeria Maritima  
Arenaria Montana  
Asperula Odorata  
Aster Alpinus,

Goliath  
Aster Alpinus, Nixe

Aubretia Bougainvillei

Auricula  
Calamintha Alpina

Campanula Carpatica

Campanula Carpatica Alba

Campanula Alba

Candytuft Semper-virens

Cerastium Tomentosum

Crucianella Stylosa

Dianthus Caesius

Dianthus Deltoides

Dianthus Plumarius

Edelweiss

Erigernon Speciosus

Hyb. Grandiflorus

Erigernon Grandiflorus Elatior

Erinus Alpinus

Erodium Manescavi

Erysimum Pulchellum

Forget-Me-Not Alpestris

Forget-Me-Not Alpestris Rosea

Geum Mrs. Bradshaw

Geum Lady Stratheden

Globularia Trichosantha

Gypsophila Repens

Helianthemum Mutabile

Heuchera Sanguinea

Hieracium Villorum

Inula Enfolia

Linaria Cymbalaria

Lychis Alpina

Oenothera Missouriensis

Poppy Alpine

Poppy Nudicaule

Poppy Mixed

Poppy Sunbeams

Poppy Double Mixed

Primula Japonica

Mixed

Primula Veris

(Polyanthus)

Primula Yellow

Pyrethrum Roseum

(Painted Daisy)

Pyrethrum Hybridum

um Grandiflorum

Pyrethrum Album

Pyrethrum Carneum

Pyrethrum Roseum

Pyrethrum Atro-sanguineum

Pyrethrum Single

Mixed

Saponaria Ocy-moides

Saxifraga Decipiens

Grandiflora

Saxifraga Rhei superba

Silene Shafts

Solidago Virgo-aurea Alpestris

Tunica Saxifraga

Veronica Incana

Veronica Prostata mixed

#### ANNUAL FOR CUTTING

Agrostemma

Antirrhinum

Arctotis

Asters

Calendula

Calliopsis

Candytuft

Carnation

Celosia plumosa

Centaurea

Chrysanthemums

Clarkia

Cosmos

Dahlia

Dianthus

Didiscus

Dimorphotheca

Eschscholtzia

Gaillardia

Godecia

Gypsophila

Larkspur

Lavatera

Lupinus

Marigolds

Mignonette

Nigella

Phlox

Poppies

Salpiglossis

Scabiosa

Statics

Stocks, Ten Week

Sunflower

Sweet Peas

Sweet William

Verbena

Wallflower

Zinnias

#### FOR SHADED PLACES

Anemone

Antirrhinum

Aquilegia

Auricula

Bellis

Canterbury Bells

Coreopsis

Delphinium

Digitalis

Hardy Primrose

Linum

Musotis

Oenothera

Pansy

Polyanthus

Poppies (Hardy)

Schizanthus

Violet

#### EVERLASTING FLOWERS

Acroclinium  
Edelweiss  
Globe Amaranth  
Helichrysum  
Honesty, Lunaria  
Rhodanthe  
Statice  
Xeranthemum  
**CLIMBING VINES**  
**ANNUAL**  
Balloon Vine  
Balsam Apple  
Balsam Pear  
Canary Bird Vine  
Cardinal Climber  
Convolvulus  
Cypress Vine  
Hyacinth Bean  
Ipomoea  
Japanese Morning Glory  
Mina Lobata  
Nasturtium  
Scarlet Runner  
Sweet Peas  
Thunbergia  
Wild Cucumber

# FLOWERS

**ABRONIA**

*Umbellata Grandiflora* (*Sand Verbena*)—6 in. A charming trailing succulent plant, with *Verbena*-like heads of fragrant flowers, of bright rose with white center; it delights in a dry, poor soil and sunny situations on rock-work. Per pkt. 10c.

**ABRUS**

*Precatorius* (*Crab's Eye Vine or Weather Plant*)—This beautiful plant has created a great sensation. If the leaves stand upward the sky will be cloudless; if they stand out straight, changeable weather is indicated; when the leaves hang straight downward, water may be expected to fall in torrents. A local storm is indicated by the curling together of the leaves. Bears clusters of bright yellow flowers, followed by pods with brilliant red seeds used for making beads, etc. Seeds should be soaked in luke-warm water before planting. Per pkt. 10c; oz. \$1.00

**ABUTILON**

*Royal Prize* (*Flowering Maple or Chinese Bell Flower*)—3 to 4 ft. As indispensable for the window or greenhouse as the *Petunia* is for the flower garden. Grows rapidly from seed, and is soon in bloom. Leaves very ornamental and often beautifully variegated. Lovely bell-shaped flowers, borne the year round and in all colors. Per pkt. 15c.

**\*ACHILLEA (Milfoil. Yarrow)**

Achillea are of easy culture and grow in any good garden soil. They are useful for the border, wild garden or shrubbery; also for cutting.

*Kelwayi*—Dark blood-red. Pkt. 25c.

The Pearl—2 ft. June to August. Pure white, fine for cutting; blooms all summer. Per pkt. 15c.

**\*ACONITUM (Monkshood)**

Do not plant near vegetable gardens. Roots are poisonous. Bold spikes of hood-shaped flowers, valuable for cutting; very effective in flower borders and shrubberies, thriving anywhere.

*Napellus*— $\frac{1}{2}$  ft. August. Fine rich blue flowers. Per pkt. 10c

**ACROCLINIUM (Everlasting)**

*Roseum*—2 ft. A pretty everlasting, bearing graceful, daisy-like flowers, pretty bright rose with yellow center which, when cut in the bud state can be dried and used for winter bouquets. Per pkt. 5c.

*Roseum Flore Alba*—Graceful, white, daisy-like flowers with yellow center. Per pkt. 5c.

*Roseum Flore Pleno*—Double pink. Per pkt. 10c.

*Roseum Flore Alba Pleno*—Double white. Per pkt. 10c

*Roseum Single Mixed*—Per pkt. 5c;  $\frac{1}{4}$  oz. 25c.

*Roseum Double Mixed*—Per pkt. 10c;  $\frac{1}{4}$  oz. 30c.

**\*ADLUMIA (Allegheny Vine)**

*Cirrhosa*—15 ft. The feathery foliage is like the Maidenhair Fern. Delicate rose pink and white flowers cover the plant. Per pkt. 10c.

**\*ADONIS**

*Vernalis*—18 in. May. Large star-shaped yellow flowers. Per pkt. 10c.

**AGAPANTHUS**

*Umbellatus* (*Blue Lily of the Nile*)—1 ft. Bright blue flowers produced in clusters on long stems. Does well out of doors in all Southern States. Greenhouse plant in the North. Pkt. 15c.

**\*AGATHEA**

*Coelestis* (*Blue Daisy*)—Flowers sky blue with yellow disk; easy growth. Per pkt. 10c.

**AGERATUM**

One of the best of summer flowering plants grown from seed. The plants start readily, grow rapidly and soon come into bloom, and when they begin to bloom they flower uninterruptedly throughout the season. During the hot, dry summer months there are no brighter or more freely produced flowers.

Those Marked \* are Perennials

**AGERATUM**

Album—White. Pkt. 5c.

*Blue Perfection*—This is the darkest colored of all large flowering Ageratums. Color deep amethyst-blue; compact growth; fine bedder; 9 inches. Pkt. 5c.

*Dwarf Blue*—6 in. A charming variety of compact growth, covered with heads of feathery flowers of a deep lavender color. Pkt. 5c.

*Little Dorrit Blue*—The best dwarf blue ageratum. Pkt. 5c

Fine Mixed—All colors. Pkt. 5c.

**\*AGROSTEMMA (Coronaria)**

*Rose Campion*—One of the most attractive of the hardy perennials. Blooms the first season from seed, producing pretty pink-like blossoms on long slender stems. Fine for both mass planting and for bouquets. Height about 18 inches. Perennial. Per pkt. 10c.

**AGROSTIS**

*Nebulosa* (*Cloud Grass*)— $\frac{1}{2}$  ft. An airy and graceful annual grass; looks like a line of mist when in bloom. Beautiful to mix with cut flowers. Pkt. 10c.

**\*ALSTROEMERIA**

*Aurantiaca*—Belongs to the Amaryllis family, quite hardy, flowers orange color streaked with red. A well established plant will produce five to six flower stalks carrying ten to fifteen blooms. Pkt. 25c.

**ALYSSUM**

A very pretty plant for beds, vases, baskets, edgings or rock work. Sweet scented and blooms profusely all summer.

*Sweet (Maritimum)*—This very hardy annual for borders, edging or massing in small beds, comes into bloom early in the spring, covering itself with clusters or trusses of small, pure white cruciform flowers. They have a peculiar, delicate fragrance and are useful in small bouquets. Usually not over eight inches high but spreading. Pkt. 5c; oz. 25c.

*Lilac Queen*—Beautiful soft lilac flowers, changing to white. Per pkt. 10c; oz. 75c.

*Little Gem*—Very dwarf—4 inches—and spreading. They quickly become one mass of white fragrant flowers, remaining in full bloom from spring to fall.

Per pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 30c

*Lutescens*—Yellowish flowers, 6 inches. Per pkt. 10c

*Procumbens*—(*Carpet of Snow*)—A new and very select strain, carefully selected. Plants very spreading and only about 3 inches tall. Blooms are massed, completely hiding all foliage. Pkt. 10c.

**ALYSSUM****\*SAXATILE COMPACTUM**

(*Basket of Gold*)—1 ft. May-June. Producing masses of golden flowers very early. May be planted effectively with *Arabis*. Per pkt. 10c;  $\frac{1}{4}$  oz. 40c.

**AMARANTHUS**

*Tricolor*—A hardy annual with leaves of red, yellow and green; well known as "Joseph's Coat." Especially brilliant if grown in rather poor soil.

Per pkt. 10c; oz. 20c.

*Caudatus*—(*Love Lies Bleeding*)—Blood-red, drooping. Per pkt. 10c.

All varieties mixed. Per pkt. 5c.

**AMMOBIUM**

*Atatum Grandiflorum*— $\frac{1}{2}$  ft. This pretty white Everlasting should be in every garden. Grows well in sandy soil.

Pkt. 10c

**ANAGALLIS**

*Grandiflora Mixed*—6 in. Lovely dwarf plants, exceedingly effective as edgings, also charming on rock-work and in pots.

Pkt. 10c

*Grandiflora Coerulea*—Dark blue, center deep purple. 10 inches.

Pkt. 10c

**\*ANCHUSA**

*Italaca, Dropmore Variety*—5 ft. June-July. Beautiful gentian blue, flowers one of the best perennials.

Per pkt. 10c

*Capensis*—Annual blue. Per pkt. 5c.

### \*ANEMONE (Wind Flower)

Very pleasing hardy plants for the herbaceous border. Fine large flowers, few plants compare with them in beauty. Excellent for bouquets and table decorations.

*Coronaria* (Poppy Anemone)—Mixed. June. 10 in. Per pkt. 10c

St. Brigid's Strain—May-June. Double and single mixed. 12 in. A beautiful selection of the Coronaria varieties in a wonderful array of colors. Per pkt. 10c.

*Pulsatilla*—1 ft. April-May. Well adapted for rock-work or border flowers, varying from lilac to purple. Per pkt. 10c

*Pulsatilla Rubra*—6 to 9 in. April-May. Dark red with erect flowers. Per pkt. 10c.

### \*ANTHEMIS (Marguerite)

These Hardy Marguerites are most satisfactory perennials, succeeding in the poorest soil. The flowers are yellow.

*Kelwayi* (Hardy Marguerite)—2 ft. Daisy-like yellow blossoms, produced all summer. Excellent for cutting. Per pkt. 10c.

### ANTIRRHINUM (Snapdragon)

Without question one of the most desirable flowers for general garden culture. They come in a great variety of colors and are equally good for bouquets as for mass planting. They are biennials, but can be handled as annuals also. When sown in early May they bloom in July and then until frost. If covered slightly they will come through the winter nicely and bloom abundantly the second year. For very early flowers start in the house and transplant outdoors when weather is favorable.

Tall Maximum or Giants—32 inches

This is the newest creation in Giant Antirrhinums, and is a marked advance over the older Tall Large Flowered type in size and brilliancy of color. The flowers are closely placed on the stems.

Apple Blossom—Rosy pink, yellow lip.

Bunch of Lilac—Lilac purple.

Canary Bird—Canary yellow, golden yellow center.

Copper King—Velvety copper scarlet.

Golden Queen—Deep yellow.

Indian Summer—Velvety copper.

Old Gold—Deep golden yellow.

Purple King—Deep glowing purple.

Snowflake—Pure white, yellow tube.

The Rose—Rose pink.

Wallflower—Brownish orange, copper red.

Finest Mixed. Per pkg. 15c, 2 for 25c.

### ANTIRRHINUM HALF-DWARF SNAPDRAGONS

15 to 20 inches

Canary Bird—A beautiful shade of light lemon yellow.

Climax—Orange shading to yellow in lip.

Coccinea—Glowing orange scarlet.

Cottage Maid—Pale pink, white throat.

Crimson Queen.

Daphne—Soft blush pink.

Defiance—Orange red.

Empress—Rich velvety crimson.

Fascination—Pearly pink self.

Fawn—Terra cotta pink, suffused yellow.

Firebrand—Fiery orange-scarlet.

Golden Queen—Rich yellow.

Nelrose—Deep rose pink.

Silver Pink—Delicate rose-pink, seemingly covered with a silver sheen.

Each of above, Per pkt. 10c, any 3 for 25c.

Mixed—Per pkt. 5c.

### ANTIRRHINUM (Snapdragon)

Large Flowering Tall—24 to 30 inches

Silver King.

Garnet. Pkt. 10c  
Delicata—Rose pink. Golden King. { 3 pkts. 25c

Rose. White. Finest Mixed. ¼ oz. 35c

Scarlet.

Butzer's Special Mixture of Snapdragons—Includes all these and many other charming varieties and a packet will furnish you with a never-ending color combination of long-stemmed cut flowers suitable for home, church or hospital decoration.

Per pkt. 10c; ½ oz. 25c; ¾ oz. 40c; 1 oz. \$1.25.

**BUTZER'S "ROSE CITY" COLLECTION**  
of 6 Packets of SWEET PEAS. All Spencers  
**25c** buys these all in regular 10c pkgs.

See Page 53.

### \*AQUILEGIA (Columbine)

Charming hardy perennial plants growing from one to three feet high, bearing in countless numbers through May and June their exquisite blossoms of clear blue, white, rose, yellow, purple, striped, etc. For planting in permanent borders or naturalizing along the edges of woods or shrubbery this old-fashioned favorite is one of the best of all hardy plants.

### LONG SPURRED HYBRIDS

**Long Spurred Hybrids**—The flowers are very large and distinct shades of blues, lavenders, mauves, whites, creams, pinks, reds, yellows, etc. Many of these colors being entirely new in the species and are the result of very many years' careful hybridization. Per pkt. 15c

Mr. Scott Elliott's Strain of Long Spurred Hybrids (Seed from the originator).—This strain is allowed by the Royal Horticultural Society to be the best ever raised, and has received awards whenever exhibited. The blooms are of large size and the spurs very long. The colors range through shades of lavenders, mauves, blues, purples, whites, creams, yellows, pinks, reds, etc. There are no jarring or crude tints, and the whole form a most harmonious mass of coloring seldom seen in other flowers.

Per pkt. 25c  
Canadensis (Turk's Cap)—Handsome scarlet and orange flowers. Per pkt. 10c

Chrysanthia—3 ft. Yellow, long spurred. Pkt. 10c

Coerulea (Rocky Mountain Columbine)—3 ft. One of the most beautiful of our native American flowers. Sepals, deep blue; petals, white. Per pkt. 10c

Coerulea Rosea (Rose Queen)—2½ ft. Beautiful flowers of light to dark rose with white center and yellow anthers, a most delicate combination of colors.

Per pkt. 25c  
Farquhar Pink—Very fine. Per pkt. 25c

Vulgaris Double Mixed—Per pkt. 10c. Single Mixed—Many varieties. Per pkt. 10c

Double Mixed—Per pkt. 10c. Per pkt. 10c

### BUTZER'S SPECIAL MIXTURE

includes all the above mentioned varieties and many new colors not found in any named collection. Pkt. 25c

### \*ARABIS (Rock Cress)

Charming dwarf spring-flowering plants of easy cultivation; valuable for beds, edgings. They do well in any soil, but need plenty of sun.

Alpina—6 in. A most useful hardy perennial for spring bedding and rockeries. Early in the spring the pure white flowers make a pleasing contrast in beds and borders with Alyssum saxatile.

Pkt. 10c

### ARCTOTIS

Grandia, the Blue-eyed African Daisy—A quick-growing, half-hardy annual, forming a bush two to three feet across, with soft whitish foliage. The flower stems are long, while the flowers are large and showy—from two to three inches across—color pure white with a blue eye, surrounded by a narrow yellow zone, the under part of the petals being lilac blue; height 18 inches. Per pkt. 10c.

### ARGEMONE

Grandiflora (The Prickly Poppy)—2 ft. Lovely plants with an ornamental foliage and large, handsome poppy-like flowers, snowy white, filled in the center with golden stamens, very beautiful. Per pkt. 10c.

Plant some Perennial Seeds this summer for next year's blooming.

### \*ARMERIA (Thrift Sea Pink)

Grand plants for crevices of wall and rocks, and also for growing in flower borders or as permanent edgings; excellent plants for the sea coast. June-July.

Formosa—9 in. Pretty rose pink. Grand for borders. Pkt. 10c

Laucheaena—6 in. June-August. Crimson flowers, deep green tufty foliage. Per pkt. 10c

Maritima—3 to 6 in. May-June. Silvery pink flowers. Per pkt. 15c

### \*ARENARIA (Sand Wort)

A fine plant for shady place in rock garden.

Montana—White—Pkt. 25c.

### \*ASPERULA

Odorata Woodruff or Waldmeister. An herb whose leaves are used in making beverages or when dried used to lay among linens. 6 to 8 in. Also useful for carpeting, shade places and for edgings.

Per pkt. 10c

Those Marked \* are Perennials

**STIM-U-PLANT**  
An All the Year Fertilizer



## ASTERS

This grand old fall favorite of our grandmother's garden still continues to beautify our garden. By gradual selection this plant now blooms from early summer until frost and its usefulness as a cut flower is unlimited. Our seed is produced by our own growers from stock seed especially selected and controlled by us.

**Culture**—Sow either in the open ground in May or in March or April in cold frame, spent hot-beds or pots or boxes in the house, covering the seed with about  $\frac{1}{4}$ -inch of good rich soil; when the plants are strong enough, transplant about 18 inches apart in deeply dug, well-prepared beds. Asters must not be planted in freshly manured soil nor in soil that has been planted to Asters for two or three years previous. Slaked lime or fresh wood ashes are beneficial if stirred in the soil a little before planting and are said to counteract the ravages of the aster blight. A few soakings with tobacco water around the roots during the growing season is also recommended.

### AMERICAN BEAUTY

Similar in type of flower and growth to the well known Late Branching Asters, but differs in that all the large blossoms are produced on much longer and heavier stems. Some of the individual stems measure more than two feet in length. It makes a very heavy growth, and is one of the latest flowering Asters that we know. This should be in every garden.

American Beauty Carmine Rose.

American Beauty Crimson.

American Beauty Lavender.

American Beauty Peach Blossom.

American Beauty Purple.

American Beauty Pink.

American Beauty Rose.

American Beauty White.

American Beauty Mixed.

Per pkt. 10c; any 3 pkts. for 25c.

### GIANT CREGO ASTERS

The Crego is probably the largest of all Asters, the petals being exceedingly long and wavy and the flowers borne on stems some fifteen inches in length. It is a monster among Asters. A real treat awaits anyone who plants this variety.

Crego Pink.

Crego Blue.

Crego Cattleya Orchid.

Crego Deep Rose.

Crego Purple.

Crego Lavender.

Crego Malmaison Pink.

Crego Rose Pink.

Crego Shell Pink.

Crego Crimson.

Crego White.

Crego Mixed.

Per pkt. 10c; 3 for 25c.

### CREGO'S GIANT MIXED ASTER

Our own mixture of the above, each color grown separately and then carefully blended in nearly equal proportions. While we advise the planting of separate colors, this mixture, being specially prepared, will give the planter a fine assortment of all shades. Pkt. 10c.

### ROSE CITY MIXTURE ASTER

This special mixture includes all of the newest and is truly an unrivaled mixture. This mixture will afford a splendid supply of flowers during the entire season. The best mixture on the market. Pkt. 10c; 3 pkts. 25c

## ASTERS

### CALIFORNIA GIANTS

A new family of asters produced by a California seed grower and specialist in asters. They combine the robust habit of growth and length of stem that characterizes the Beauty type and the Crego or Ostrich Feather type of flower. A true non-lateral type.

California Giants Peach Blossom.

California Giants Light Blue.

California Giants Light Purple.

California Giants Deep Rose.

California Giants White.

California Giants Dark Purple.

California Giants Mixed.

Per pkt. 10c; 3 pkts. for 25c

### CALIFORNIA GIANTS MIXED ASTER

Our own mixture of the above, each color grown separately and then carefully blended in nearly equal proportions. While we advise the planting of separate colors, this mixture, being specially prepared, will give the planter a fine assortment of all shades. Pkt. 10c

### GIANT OSTRICH FEATHER ASTER

The finest type of the Giant Comet, or Ostrich Feather type of Aster. Much larger than the Giant Comet, the petals longer, more twisted, and produced in greater abundance. Borne on long stems, they make cut-flowers par excellence.

Dark Pink.

Rose.

Cinnabar—Terra Cotta.

Crimson.

Light Blue.

Sky Blue.

Rose Pink.

White.

Malmaison—Pink.

White turning to Sky Blue

Each of the above, pkt. 10c; any 3 pkts. for 25c.  
Mixed, all colors, pkt. 10c.

### THE KING ASTER

The habit is similar to the popular Giant Branching vigorous in growth, long stiff stems. In form the flower is entirely distinct from any other variety; petals somewhat resemble the quilled varieties, but are much larger and broader, those in the center being curled and incurved, completely covering the crown. In shape and size the bloom is round, full and very large.

White.

Pink.

Rose.

Shell Pink.

Crimson.

Violet.

Lavender.

Mixed, all colors.

Each of the above, pkts., 10c: any 3 pkts. for 25c.

### GIANT BRANCHING COMET

This is one of the most popular and distinct types of Asters as well as being of the earliest period of bloom. Plants grow 12 to 15 inches in height, branching freely. The outer petals are broad, flat, and reflexed (curving outward), while the center of the flower is composed of many short petals, slightly pointed. The whole flower has a distinctly feathery effect resembling that of the Japanese Chrysanthemums.

Comet White.

Comet Lavender.

Comet Pink.

Comet Dark Blue.

Comet Rose.

Comet Crimson.

Comet Rose-Pink.

Comet Purple.

Comet Light Blue.

Comet Mixed.

Per pkt. 10c; 3 pkts. 25c. postpaid.

## ASTER

### SINGLE GIANTS OF CALIFORNIA

It was developed out of the Double Giants of California type. The flowers are large, measuring three to four inches across, with stems 18 to 24 inches in length. The petal has a slight twist, which adds a piquant touch to its beauty. The white blossoms resemble Shasta Daisies in appearance, but their greater length of stem makes them more graceful and better adapted to florist's use. In the garden, the Single Giants of California add a charming note of simplicity among the fuller types of Asters. We believe this new, single type of Aster is destined to become very popular.

We can supply this in White, Rose, Light Blue, Purple, Lilac, Delicate Flesh and Mixed, at 15c per pkt., 2 pkts. 25c.

### SINGLE MARGUERITE ASTER

Plants strong, vigorous and of handsome pyramidal habit, very free blooming, and produce their beautiful flowers on long slender stems. The flowers are from 2 to 3 inches in diameter, with small yellow centers, and last a week when cut.

Scarlet.

White.

Dark Blue.

Mixed.

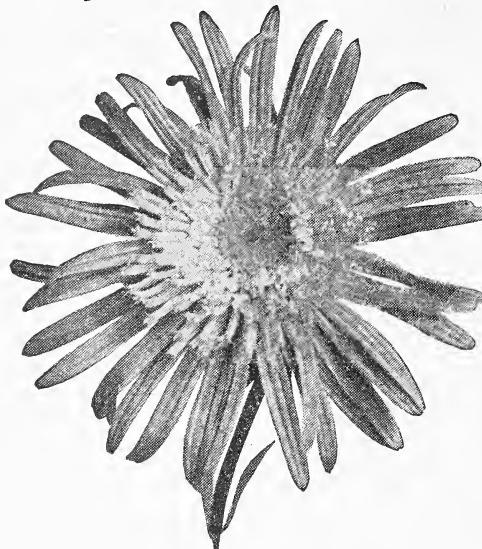
Lavender.

Per pkt. 10c each; 3 pkts., 25c

# ASTER

## THE SUNSHINE

### Improved Anemone Flowered



One of the most attractive varieties. The plants are sturdy and strong, throwing up long flower stalks, making wonderful cut flowers. Some of the flowers have twisted petals and some have quilled petals; all have a cushion center of tiny quills of a contrasting color which makes a flower look as if it was covered with snowflakes. The blue flowers are dotted with a paler blue and some in white, and the rose in a lighter shade of pink or white. Their delicate beauty is hard to describe. A wonderful cut-flower variety, borne on long, stiff stems, and the flowers last a long time after cutting.

We can supply this in:

Carmine.

Flesh.

Lavender.

Pink.

Violet.

White.

Per pkt. 10c; 3 pkts. 25c

Sunshine Aster Mixed—A most attractive Anemone-flowered variety of special value for cutting, with a wonderful array of dainty colors covering all the color tones usual to the Aster. Mixture containing all colors.

Per pkt. 10c; 3 pkts. 25c

### AMERICAN ASTERMUM

An attractive and descriptive name for a new race of asters which belong to the Comet family. The plants are of strong upright growth with 12 to 15 strong stems 20 inches long, each carrying a flower of perfect form.

Lavender.

Mixed three colors.

Rose Pink.

Snow White.

Each of the above, pkt. 10c; 3 pkts. for 25c

### HEART OF FRANCE ASTER

Heart of France opens red as the purest ruby, deepens with age and retains its remarkable color to the very end. The petals appear strikingly changeable, showing now a glow and sheen quite unique, now a soft warm velvety texture. In any light, natural or artificial, Heart of France is startlingly beautiful and will command instant admiration. Pkt. 10c.

### PEERLESS YELLOW

This is the best yellow Aster. The flowers are of fair size; they are borne on long stems; the color is a pleasing light yellow. Pkt. 15c.

### LAVENDER GEM ASTER

One of the most beautiful Asters. It is of true Comet type, with large, artistic, loosely-arranged flowers on long, wiry stems, and of the most charming shade of lavender imaginable. Begins blooming in July, continuing through August; a lovely variety for cutting.

Per pkt. 10c; 3 pkts. 25c

### \*ASTER (*Alpinus*)

Now fill a most important place in all hardy flower gardens, lighting up the borders and shrubberies with their masses and clouds of dainty and brightly colored blossoms throughout the autumn months up to November, when other flowers are scarce.

*Alpinus Goliath*—Large, soft blue. Pkt. 20c.

*Alpinus Nixe*—Light blue, star-shaped. Pkt. 15c.

### \*ASTERS PERENNIAL

Hardy Perennials of much beauty in the autumn days. Less showy than the Chrysanthemum, they are more refined in color and form. Easy to cultivate and fine for cutting.

All Sorts Mixed—Extra fine, from a splendid collection; sown early in spring, they will flower the same year.

Per pkt. 10c

You Can Select 7-5c packages for..... 25c  
Select 8-10c packages for..... 50c  
Select 5-15c packages for..... 50c

### \*AUBRIETIA

Large-Flowered Hybrids. The beautiful mauve spring bedding plants makes the garden so gay in the early months of the year. Aubrietas produce great masses of bloom and are charming companions of Yellow Alyssum and White Arabis. Grows well from seed. Sow in June and plant out in autumn where required for flowering in spring. A valuable strain including a wide range of many unusual colors which cannot be fixed and offered separately. Height 6 inches.

Pkt. 25c

### \*AURICULA

These are among our most delightful spring flowers. They require a partially shaded location.

*Auricula*—6 in. Flowers in early spring in colors of yellow, brown and red.

Per pkt. 25c

### BABY BREATH (See *Gypsophila*)

### BACHELOR'S BUTTON

See *Centaurea*.

### BALLOON VINE

Thrives in light soil. One of the prettiest climbers. Remarkable for its inflated membranous capsules containing the seed. It is sometimes called Love in a Puff. Flowers white. Pkt. 5c.

### BALSAM

*Balsam* or *Lady Slipper*—Double Camellia Flowered—An old and favorite garden flower, producing its gorgeous masses of beautiful brilliant colored double flowers in the greatest profusion; of easy culture; succeeds in a good rich soil. Our strain is unrivaled for great variety and size of flowers.

Double Bright Scarlet. Double Salmon Rose.

Double Rose. Finest Double Mixed.

Double White. Per pkt. 5c.

### BALSAM (Apple) (Pear)

*Apple*—10 ft. A very ornamental and quick growing climber. While it has a flower, it is grown mostly for the effect of the fruit which follows. This is yellow, looks not unlike an apple—hence its name. When ripe it opens and shows the seeds and blood-red interior.

Per pkt. 10c

*Pear*—like above, only the fruit is pear-shaped.

Per pkt. 10c

*Balsam*—Apple and Pear mixed. Per pkt. 5c.

### BARTONIA

*Aurea*—12 in. One of the most showy of annuals, excellent both for beds and borders; producing showy, golden-yellow flowers. The foliage is gray and thistle-like, and is exceedingly brilliant in the sunshine. It will not stand transplanting, so should be sown where intended to bloom. Sow in the open ground early in May. Blooms through summer and fall. Per pkt. 10c

### BELLIS—See Daisy.

### \*BOCCONIA

*Cordata* (Plume Poppy)—5 ft. A handsome border plant, having large lobed heart-shaped leaves with silvery undersurface, and flower plumes of a pretty cream color.

Per pkt. 10c

**BRACHYCOME (Swan River Daisy)**

A free flowering dwarf-growing annual which is covered during the greater part of the summer with an abundance of pretty blue and white flowers. Fine for edging, small beds or pot culture. Height, 9 inches.

Pkt. 10c

**BRIZA**

**Maxima** (Quaking Grass)—12 in. Valuable for winter bouquets and wreaths. The seed clusters are heart-shaped and gracefully poised on such slender stems that they are almost constantly in motion. Per pkt. 10c

**BROWALLIA**

A half-hardy annual, making a fine bedding plant. Blooms profusely. The flowers are bright ultra-marine blue, and also sky-blue with white center.

Mixed, pkt. 10c

**CACALIA—2 ft.**

Each flower is a miniature paint brush of orange-scarlet produced on long wiry stems which make it an excellent cut flower. An old but little known annual for the border worth trying.

**Tassel Flower or Flora's Paint Brush**—Scarlet and orange mixed. Pkt. 10c

**\*CALAMINTHA**

**Alpina**—6 in. A very graceful little rock plant, spreading tufts of pretty foliage, spangled with lavender-blue flowers. Per pkt. 25c

**CALENDULA (Pot Marigold)**

This is the Marigold of Shakespeare's time. An annual of easy culture. Plants grow about one foot high and one foot in diameter and literally covered with large double flowers. Blooms from July to frost.

**Orange King**—The outer petals are slightly imbricated, while those of the center are curved like those of the peony. Color glowing orange. Pkt. 10c

**The Ball**—It has fine stems, immense double flower of a brilliant glisteney orange. A great favorite on the Cut Flower Market. Pkt. 10c

**Balls Gold**—Dark golden yellow. Pkt. 10c

**Lemon Queen**—Large sulphur yellow. Per pkt. 10c.

**All Colors Mixed**—Per pkt. 5c.

**Campfire**—Has proven to be the best forcing orange.

**Calendula** on the market. The flowers are extremely large and very dark orange with a scarlet sheen, making them most attractive. This strain has been carefully selected and will produce very strong stems with few buds on them, which gives the advantage for forcing purposes. Pkt. 15c.

**CALIFORNIA POPPY**

See Eschscholtzia.

**CALLIOPSIS (Tickseed)**

Very graceful border plants, supplying throughout summer an abundance of elegant showy flowers which are greatly prized for bouquets and vases. They will thrive anywhere, even in city gardens, where their bright colors are highly appreciated.

**Golden Wave**—Flowers yellow with a circle of rich crimson-brown around the eye. Per pkt. 5c

**Crimson King**—Per pkt. 5c.

**Golden King**—Pkt. 5c.

**Radiata Tigrinia** (Tiger Flower)—6 to 8 in. Flowers large reddish-brown, turning golden yellow. Per pkt. 10c

**Tall Double Mixed**—Per pkt. 5c.

**Tall Single Mixed**—Per pkt. 5c.

**Special Mixed**—Per pkt. 5c.

**\*CAMPANULA (Canterbury Bells)**

**Bellflower**—Well known, beautiful, hardy herbaceous perennials, bearing a great production of attractive bellflowers; thrives best in light, rich soil; some of the varieties flower the first season if sown early.

**Single Finest Mixed**—All colors. Pkt. 5c.

**Carpathica**—Single Blue, grows 1 ft. high; compact; good for borders. Pkt. 5c

**Double Blue, White, Rose or Mixed**—Pkt. 10c.

**Campanula Calycanthemum**—Cup and Saucer—Lilac, Rose (delicately rosy-pink), Pkt. 10c; White (pure white), Pkt. 10c; Blue (a fine clear shade), Pkt. 10c; Mixed (all colors), Pkt. 5c; Striped (white, striped blue), Pkt. 10c.

**Persicifolia, Mixed (Peach Bells)**—Beautiful bell-shaped flowers which come in colors of blue and white. Pkt. 10c

**Pyramidalis, Blue (Chimney Bellflower)**—Rich blue saucer-shaped flowers; 18 inches high. Pkt. 10c.

**Pyramidalis, White**—A pure white form of the above. Pkt. 10c

**CANARY BIRD FLOWER**

This is one of the most beautiful of climbers, with handsomely fringed rich yellow flowers and delicate foliage.

Per pkt. 5c

**CANDYTUFT (Hyacinth Flowereal)**

Candytuft has long been among the most highly prized of garden annuals. The best effect is produced by raising the plants in masses, and sowing the seeds where the plants are to bloom.

**Little Prince**—Dwarf white. Pkt. 5c; oz. 70c.

**White Empress**—Very sweet and attractive.

Pkt. 5c; oz. 50c

**CANDYTUFT (Iberis Umbellata)**

**Lilac**—Per pkt. 5c. **Flesh**—Pkt. 5c.

**Crimson**—Per pkt. 5c. **White**—Pkt. 5c.

**Rose**—Per pkt. 5c. **Lavender**—Per pkt. 5c.

**Rose Cardinal**—Pkt. 5c. **Mixed**—Per pkt. 5c.

**\*CANDYTUFT (Perennial)**

Dwarf evergreen plants, 6 to 10 in., covered with blooms in spring and early summer. Excellent for rockeries or borders where bright dwarf masses are wanted.

**Gibraltarica**—Pinkish white. Per pkt. 10c.

**Sempervirens**—Flowers form a sheet of whiteness.

Per pkt. 10c

**\*CANNA**

Enormous brilliant clusters of bloom borne on spikes above broad leaves of green or bronze, in tropical effect. No park, no public garden, private estate, or even moderate town plat is complete this summer without a showing of Cannas. These are usually planted from roots or started plants, but they can be successfully grown from seed if planted early. The seed should be pierced in one spot with a file and soaked in lukewarm water for 24 hours before sowing. A splendid lot of plants may be produced at a much reduced cost.

**Choice Mixed**—Pkt. 5c.

**CANTERBURY BELLS (See Campanula)****CARDINAL CLIMBER**

**Ipomea Quamoclit Hybrida**—The finest new annual climber introduced in many years. Very graceful and beautiful, growing rapidly, and in a warm, sunny location, in good soil, it reaches a height of 20 feet and is densely clothed with deeply laciniated palm-like, rich green leaves, bespangled with clusters of fiery scarlet, tubular spear-shaped flowers, measuring 1½ inches across.

**\*CARNATIONS**

A half-hardy, perennial, used generally for greenhouse florist's trade in winter and for a general garden favorite in summer. There are a large number of varieties and colors, but the early flowering mixtures are recommended for out-of-door culture. Sow the seed early in the year and transplant in March or April.

**Chabaud Mixed**—A remarkable strain raised by a Carnation specialist. Blooms in 5 months after being sown, and continues to flower indefinitely in the greatest profusion.

Pkt. 100 seeds, 15c

**Chabaud Double Dark Red**. Pkt. 15c.

**Chabaud Double Scarlet**. Pkt. 15c.

**Chabaud Double White**. Pkt. 15c.

**Chabaud Double Yellow**. Pkt. 15c.

**Finest Double Mixed**—Saved from extra fine flowers.

Pkt. 25c

**\*CARNATIONS**

**Engleman's**—We believe that there is no better carnation than this, over 80 per cent will be double and is a perpetual bloomer.

Mixed, per pkt. 25c

**CARNATION**

**Marguerite**—This exceedingly valuable departure in Carnations has proved a complete success. Its most important feature is the fact that it flowers easily the first year from seed—that is, from seed sown in February or March, plants can be had in full bloom by August. The proportion of fine double flowers is very great, being usually 70 to 80 per cent; these are varied and beautiful in color and exceedingly useful for cutting. The habit of the plant is robust, and hence very useful for bedding purposes. Finest mixed.

Pkt. 5c

**CELOSIA CRISTATA (Cockscomb)**

Showy, half-hardy annuals of easy cultivation; 1 foot; producing large, brilliant, combs-like flower heads.

Tall Crimson—Pkt. 10c.

Dwarf Mixed—All the above and others.

Pkt. 10c;  $\frac{1}{2}$  oz. 30c

Tall Cockscomb Mixed—18 to 24 in. Pkt. 10c

Plumosa or Plumed Varieties— $2\frac{1}{2}$  to 3 ft. These stately plants are considered among the most ornamental, and should not be omitted in any garden. They generally form pyramidal bushes branching out in candelabra shape, and the numerous massive plumes which resemble ostrich feathers, wave gracefully above the foliage.

Plumosa Mixed, all colors. Pkt. 5c,  $\frac{1}{4}$  oz. 15c.

**CELOSIA**

The Chinese Woolflower (*Celosia Childsii*)—Plants grow two to three feet high, the bloom starting early with a central head, round and globular, which often reaches the immense size of two feet in circumference. Scores of branches are thrown out, each bearing a ball of scarlet wool. All these branches support numerous laterals with small heads of bloom mixed with fresh green foliage, so that a plant looks like an immense bouquet splendidly arranged and set in the ground. None of the blooms fade in any way until hit by frost; but all continue to expand and glow with a deepening richness of color, a dark crimson-scarlet. Pkt. 15c  
*Childsii Yellow*. Pkt. 15c. *Childsii White*. Pkt. 15c.  
*Childsii Scarlet*. Pkt. 15c. *Childsii Mixed*. Pkt. 15c.

**CENTAUREA****Double Cornflowers (*Centaurea Cyanus*)**

These are also known as Bachelor's Buttons, Blue Bottle, Ragged Sailor, Bluet and sometimes as Ragged Robin, but which name belongs to one of the Lychnis and frequently results in confusion. It is always best to order by the botanical names. They are well known to every flower lover and always included in old-fashioned gardens.

Blue—This is the dark blue sort so much in demand for cutting. Pkt. 5c; oz. 30c.

White. Pkt. 5c, oz. 25c. Pink. Pkt. 5c.

Mixed. Pkt. 5c.

**CENTAUREA IMPERIALIS****(Sweet Sultans)**

This beautiful class is undoubtedly the finest of all Sweet Sultans for cut-flower purposes. The charming, sweet-scented, artistic-shaped flowers are borne on long, strong stems and when cut will stand for several days in good condition. It is best, in this latitude, to sow very early in the spring, so that they may perfect their flowers before very hot weather comes;  $2\frac{1}{2}$  feet. Following distinct colors:

Brilliant Rose.

White.

Purple.

Mixed.

Deep Lavender.

Rosy Lilac.

Moschata Mixed—Sweet Sultan, white, red and blue.

Pkt. 5c

**CENTAUREA (Dusty Miller)**

*Candidissima*—10 in. Thick silvery white leaves, used for bedding purposes. Pkt. 10c

*Gymnocarpa Dusty Miller*—1 ft. Foliage finely cut of silvery gray color, used for bedding. Pkt. 10c

**\*CENTAUREA (Perennial)**

A dry, sandy soil of moderate fertility, seems to suit them best, keeping up a profusion of bloom all summer.

Montana, Blue—Large-flowered perennial Cornflower.

Pkt. 10c

Montana alba—White. Pkt. 10c.

**\*CERASTIUM**

*Tomentosum* (Snow in Summer)—4 in. Silvery white foliage, covered with snow-white flowers in early summer. Per pkt. 15c

Biebersteini—White. Pkt. 10c.

**\*CHEIRANTHUS**

Allioni—1 ft. Fine rock or border plant with orange flowers. Pkt. 10c

**\*CHELONE**

Long coral-red spike like a pentstemon.

Hybrida, Mixed (Turtle Head)—3 ft. July and August. Allied to Pentstemon; throws out long spikes of brilliantly-colored flowers. Pkt. 10c

Barbatus Coccinea—Red. Pkt. 10c.

Those marked \* are Perennials

**CHRYSANTHEMUM**

These outdoor "summer Chrysanthemums" are showy for bedding or borders in the garden and desirable for cut flowers. Plants become more bushy and shapely if pinched back in early growth and the practice of disbudding will result in much larger flowers. These annuals are not the winter flowering sorts sold by florists and which are propagated only by division of roots.

Coronarium—Double Tall Mixed. Pkt. 5c.

Coronarium—Double Dwarf Mixed. Pkt. 5c.

Carinatum—Single Mixed. Pkt. 5c.

Carinatum—Double and Single Mixed. Pkt. 5c.

**CLARKIA**

One of the prettiest and showiest of hardy annuals that bloom freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight; useful for hanging baskets, vases and as edgings to beds of larger growing plants. Sow outdoors in early spring and grow in partial shade. The plants keep up a continuous bloom through midsummer to late autumn. Average height  $1\frac{1}{2}$  ft.

Alba Elegans—Double pure white.

Apple Blossom Elegans—Double pink.

Brilliant Elegans—Double salmon pink.

Salmon Queen Elegans—Double salmon.

Scarlet Queen Elegans—Double orange scarlet.

Purple Prince Elegans—Double purple.

Choice of above, pkt. 5c

Double Elegans Mixed. Pkt. 5c;  $\frac{1}{4}$  oz. 15c.

Double and Single Mixed. Pkt. 5c;  $\frac{1}{4}$  oz. 15c.

**CLEOME**

Pungens (Spider Plant)—5 ft. A showy garden annual producing curious heads of flowers of bright rose color; of easy cultivation, blooming until late; a good bee plant.

Pkt. 10c

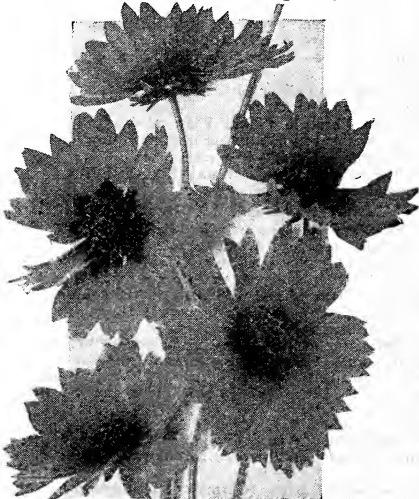
**COBOEA**

Coboea Vine, Cathedral Bells—One of the handsomest and most rapid growing annual climbers, running up to 30 feet in a season. The flowers are bell-shaped and of a purplish lilac when full grown. It is a very prolific bloomer, one that makes a show the first year, both in vines and flowers, one that is always clean of insects. We know of none better.

Blue—Pkt. 5; White—Pkt. 5c; Mixed—Pkt. 5c.

**COCKSCOMB (See Celosia Cristata)****COIX LACHRYMAE (Job's Tears)**

Curious ornamental grass with broad, corn-like leaves and lustrous slate colored seeds used for beads. Valuable winter bouquets with everlasting flowers. Plant outdoors early spring in hills 3 ft. apart. Pkt. 5c; oz. 15c

**COLUMBINE (See Aquilegia)****\*COREOPSIS (Tickseed)**

One of the most popular hardy plants, the flowers are a rich golden yellow of a beautiful graceful form and bloom June to October.

Lanceolata Grandiflora—2 ft. Large orange-yellow flowers on long graceful stems. About the best yellow cut flower blooming incessantly.

Pkt. 10c

You Can	Select 7-5c packages for.....	25c
	Select 8-10c packages for.....	50c
	Select 5-15c packages for.....	50c

**\*COREOPSIS (Double)**

*Lanceolata Grandiflora Fl. Pl.* (Double Flowering Coreopsis)—This new double and semi-double form is just as easy to grow as the single and the extra petalage adds a further charm to the flower. Pkt. 10c

**CORNFLOWERS (See Centaurea)****COSMIDIUM**

Two feet. The flowers are golden yellow with a broad circle of a rich orange around the disc, a pleasing combination. Plants produce a succession of bloom all summer. Pkt. 10c

**COSMOS**

One of the best and showiest annuals for late summer blooming. The plants grow to a height of from four to six feet and therefore make an excellent background for the garden. The flowers are borne on long stiff stems and with the feathery foliage make beautiful bouquets. Will last about a week in water.

**Mammouth Flowering**—White, pink, red, crimson or mixed. Pkt. 10c; 3/4 oz. 20c

**EARLY FLOWERING COSMOS**

Seed started early in the house or frame, will produce flowers a month earlier than Mammouth.

**Crimson.** Pkt. 10c. **White.** Pkt. 10c.

**Pink.** Pkt. 10c. **Mixed.** Pkt. 10c, 3/4 oz. 30c.

**COSMOS CRESTED**

**Anemone Flowered** or **Crown and Crested**—These differ from the other cosmos in the formation of the center of the flower, which develops a crown or crest, like an anemone, the guard petals remain the same.

**Crimson.** **White Queen.**

**Malmaison Pink.** **Mixed.**

**Pink Beauty.**

Each of the above, pkt. 10c.

**COSMOS**

**Klondyke**—A gorgeous orange-yellow flower with very handsome foliage more coarsely lacinated than others. Pkt. 10c

**\*CRUCIANELLA**

**Stylosa**—Tangled masses of elegant foliage, with crowned heads of light red flowers. Pkt. 15c

**CYNOGLOSSUM (Chinese Forget-me-not)**

This easily grown annual deserves to be grown quite extensively on account of its wide range of adaptation, easy culture, and attractiveness. It thrives in a dry sunny location where few other flowers will make a show and blooms continuously from June until September. No special care is required to create attractive beds or borders with it.

Sow the seed during April or May, covering it with  $\frac{1}{4}$  inch of fine soil. When plants are about 2 inches tall thin to stand 6 inches apart. The plants will soon bear a mass of bright blue Forget-Me-Not-like flowers. Pkt. 10c.

**CYPRESS VINE (Ipomoea Quamoclit)**


A most beautiful rapid growing climber with delicate dark green, feathery foliage and many bright, star-shaped, scarlet or white blossoms. Planted by the side of veranda, tree or stakes, and trained properly, there is no handsomer climber.

Seed is usually sown outdoors early in spring in the row where the plants are to remain. Cover seed one-half inch deep. Germination will be hastened if the soil is warm and kept in moist condition. Thin the young plants four to six inches apart. Tender annual. About 15 feet high.

**Rose**—Pkt. 5c; oz. 25c.

**Scarlet**—A very deep, rich shade. Pkt. 5c; oz. 25c.

**White**—Clear paper white. Pkt. 5c; oz. 25c.

**Mixed**—The two colors above. Pkt. 5c; oz. 20c.

**\*DAHLIA**

A favorite for autumn flowering blooming the first season from seed if started early. The flowers are so symmetrical and perfect and the range of colors so wide and varied that they will always be popular where display is wanted.

Seed may be sown in spring in open ground after danger of frost is over, but for best results sow in shallow pans at any time from March to June, and transplant the seedlings to small pots. When strong enough and danger from frost is over plant out one foot apart. These plants will produce tubers which should be taken up in the fall and replanted the following spring; these roots will flower freely the following autumn. Tender herbaceous perennial, three to four feet high.

**Finest Double Mixed**—Seeds saved from choicest double flowers, including shades of red, pink, dark maroon, yellow, white, etc. Pkt. 15c.

**Finest Single Mixed**—Will produce brilliant flowers running through a wide range of striking colors. Pkt. 10c; oz. 50c.

**Finest Cactus**—From the best varieties, mixed. Pkt. 10c

**Collarette**—Our special strain of Collarette varieties contains a great variety of distinct shades and colors, the majority being equal in form to named varieties. Pkt. 10c

**All Varieties Mixed.** Pkt. 10c.

**DAHLIA BULBS (See pages 58 and 59)****\*DAISY**

**Daisy, or Bellis Perennis**—Plants of Double Daisy will bloom the first summer and will continue to bloom for years if given slight protection during the winter. They are very pretty when in bloom, and deserve to be grown much more than they are. They commence blooming in April and continue to bloom until summer. They are not very particular as to soil, but should be grown where they have partial shade.

**Double Red.** Pkt. 10c.

**Pink.** Pkt. 10c.

**Double Rose**—Finest strain. Pkt. 10c.

**Double White**—Clear white. Pkt. 10c.

**Double Mixed**—Shades of rose and white. Pkt. 10c.

**\*SHASTA DAISY**

A fine perennial plant bearing large white single blossoms, with yellow centers; an excellent cut flower and admired everywhere. Soak seed in warm water over night before sowing. Pkt. 10c.

**\*DATURA**

Large branching plants producing very large, handsome double or single, trumpet-shaped blossoms of exquisite fragrance. Excellent for late summer and autumn flowering.

Seed may be sown outdoors after danger of frost is over, but for early blooming sow in hotbed and transplant about three feet apart each way. Roots can be kept all winter in cellars. Tender annual; three feet high.

**Wrightii**—Pure white at the center shaded into lilac and blue; magnificent large single flowers. In warm latitudes can be continued as a perennial. Pkt. 10c.

**\*DELPHINIUM**

**Delphinium**—Hardy Larkspur. Very decorative border plants ranging in height from the 18-inch Cashmerianum to the stately Hybrids, 5 to 6 feet tall, whose side shoots flower after the main spike has finished, thus prolonging the blooming period. If the flower spikes are removed as soon as they fade, new ones will continue to appear, at intervals all summer. The colors run from pure white to darkest blue. Some varieties have a black center, others show a pleasing contrast, in shades of blue, between the inner and outer petals. Stake all varieties when 18 inches high to prevent them from blowing down.

**\*Butzer's Portland Hybrids**—This mixture is a wonder. The plants are strong and vigorous. The flower spikes are tall and graceful, covered from bottom to top with the most beautiful hollyhock-like flowers. The colors are from the palest lavender to the richest blue, some with white centers, others with black, reminding one of bees at work. Pkt. 15c

**Belladonna**—Light Blue. 2 feet. Flowers exquisite shade of turquoise blue. Pkt. 15c.

**Belladonna**—Dark Blue. Pkt. 15c.

**Chinese Album**—White. Pkt. 5c.

**Cardinale**—Brilliant scarlet. Pkt. 10c.

**Chinese Dark Blue**. Pkt. 5c.

**Chinese Light Blue**. Pkt. 5c.

**Chinese Blue Butterfly**. Pkt. 5c.

**Finest Mixed**. Pkt. 5c.

**Nudicaule Scarlet**. Pkt. 25c.

**YOU ORDERED A PACKAGE  
HAVE OF THE NEW NASTURTIUMS?  
See Page 46.**

**DIANTHUS**—See Pinks

## DIDISCUS (Blue Lace Flower)

**Coeruleus**—This pretty and interesting annual blooms most profusely from July until November; also used extensively for early spring flowering in a cool green house; their exquisite pale lavender blossoms are excellent for cutting; plants grow about 18 inches high, and have as many as 50 flowers open at one time.

Pkt. 15c

**DIGITALIS (See Foxglove)**

## DIMORPHOTHECA

(African Golden Daisy)

**Auricula**—(Golden Star of the Veldt)—1 ft. Rare and very showy annual from South Africa, having daisy-like flowers of a glossy salmon-orange shade with black central ring, a lovely color when flowers open in the sun. Pkt. 10c,  $\frac{1}{4}$  oz. 30c.

**Dimorphotheca**—New Shades—Salmon Beauty, White Beauty, Golden West, Orange, Mixed. Per pkt. 10c.

## DIMORPHOTHECA RINGENS

A beautiful species of the Cape Marigold, of light graceful habit and bearing elegant white flowers, 3 in. across, with dark blue-spotted center, reverse of petals blue and mauve; in bloom from spring to autumn.

Pkt. 10c

## DOLICHOS (Hyacinth Bean)

**Princess Helen**—(Daylight)—Snow white flowers followed by silvery white seed pods. 1 oz. 25c; Pkt. 5c.

**Purple Soudan**—(Darkness)—Attractive rose-violet flowers with dark ruby-purple seed pods. 1 oz. 25c; Pkt. 5c.

Mixed, all colors—2 oz. 35c; 1 oz. 20c; pkt. 5c.

**Echinocystis Lobata**—See Wild Cucumber.

## \*EDELWEISS

**Leontopodium Alpinum**—4-12 in. June-July. The true and famous Edelweiss of the Alps. The flowers are of downy texture, pure silver white and star-shaped. Succeeds in almost any soil with full exposure to sun.

Per pkt. 25c

## \*ERIGERON (Flea Bane)

Valuable summer flowering plants with elegant single aster-like flowers, much prized for cutting.

**Elatier Speciosus Hyb. Grandiflorus**—Large flowers, rich purple. Pkt. 20c

**Elatier Grandiflorus**—Rosy. Pkt. 20c.

## \*ERINUS

**Alpinus**—Pretty rosettes of foliage and racemes of rosy purple flowers. A first rate rock plant and also invaluable for establishing on old walls or between steps. 4 in. May-June.

Per pkt. 35c

## \*ERODIUM

**Manescavi**—Handsome dwarf perennial, producing an abundance of small Pelargonium flowers, bright crimson-purple, delicate fern-leaved foliage. 18 in. June-Aug.

Per pkt. 15c

## \*ERYSUMUM

**Pulchellum (Fairy Wallflower)**—A new dwarf species forming close mats of dark green, later eclipsed with yellow bloom. Sandy soil. Per pkt. 15c

## ESCHSCHOLTZIA

**Eschscholtzia, or California Poppy**—A hardy annual, with fine-cut, feathery foliage and beautiful velvety cup-shaped flowers. Grows from one to one and a half feet high, and blooms profusely. Seed may be sown in the fall, and any time thereafter till April, and blossoms may be had from early in January till late in summer. Of the easiest culture. Any soil will do, but the better the soil the larger the plants and blossoms. It is best to sow the seed in the garden, where the plants are to remain, as they do not transplant easily.

**Alba** (Pure White). Pkt. 5c.

**Canaliculata Rosea**—Rosy pink. Pkt. 5c.

**Carmine King**—Deep carmine. Pkt. 5c.

**Chrome Queen**—Amber yellow. Pkt. 5c.

**Crimson**—Carmine crimson. Pkt. 5c.

**Dainty Queen**—Coral pink on cream ground. Pkt. 5c.

**Golden West**—Yellow orange center. Pkt. 5c.

**Lovely**—Rose pink suffused salmon. Pkt. 5c.

**Mikado**—Orange crimson. Pkt. 5c.

**Purple Glow**—Reddish purple. Pkt. 5c.

**Scarlet Beauty**—Deep scarlet. Pkt. 5c.

**Tango**—Bronze red overlaid Terra Cotta. Pkt. 5c.

The Geisha—Inside petals brilliant gold, outside orange crimson petals fluted. Pkt. 10c.

**Mixed**—An excellent mixture producing deep yellow creamy white, scarlet and orange flowers. Pkt. 5c;  $\frac{1}{2}$  oz. 40c.

Those Marked \* are Perennials

## FORGET-ME-NOT (Myosotis)

Half-hardy perennial, which flowers the first year from seed if sown early. Will bring forth lovely blossoms throughout the whole summer and fall. Flowers are borne on long stiff stems, and of the most exquisite colors. They succeed best with moisture in a somewhat shaded position.

Blue. Pkt. 5c.

White. Pkt. 5c.

Pink. Pkt. 10c.

Mixed. Pkt. 5c.

## FOUR O'CLOCK

**Marvel of Peru**—A hardy annual, growing luxuriantly in any ordinary soil, and bearing a profusion of bright, handsome flowers of various colors, shades and markings. Flowers open at four o'clock, close in the morning. Choice Mixed.

Pkt. 5c; oz. 20c

## \*FOXGLOVE (Digitalis)

**Digitalis**—A hardy perennial, blooming the second year from seed. Grows usually about 3½ feet, although in very rich soil sometimes 6 feet. The bell-shaped flowers are borne on long spikes, and come in shades of purple, lavender, rose and white, all spotted lightly inside the blossoms. Thrives best in cool, shady locations.

**Gloxiniaeflora**—This is a fine strain of the ordinary Foxglove (D. purpurea), with handsome spotted Gloxinia-like flowers on long spikes.

Purple. Per pkt. 10c.

Rose. Per pkt. 10c.

White. Per pkt. 10c.

Mixed. Per pkt. 10c.

**The Shirley**—A magnificent strain of the highest beauty, the results of many years of careful re-selection by the Rev. W. Wilks in his famous garden at Shirley; growing 5 to 7 ft. high, the 4-ft. long inflorescences bearing enormous flowers ranging from pure white to the deepest rose, and wonderfully blotched and spotted dark maroon, crimson and chocolate. Pkt. 15c.

**Lutzii**—Salmon. Pkt. 10c.

**Butzer's Special Mixture of Digitalis**—A grand mixture of the above, and many other colors. Pkt. 10c.

## GAILLARDIA (Blanket Flower)

Both the annual and perennial varieties of Gaillardia are very showy and free bloomers all summer long until frost; good in any situation and easily grown. The individual flowers are of large size, very durable, and most brilliant in color; fine for bouquets. 2 to 3 ft.

**\*Dazzler**—Large flowers up to 5 inches across, bright golden yellow with rich maroon red center, fine for cutting.

**\*Portola Hybrids**—The plant is of strong, vigorous, erect habit of growth, from 2½ to 3 ft. high; the stems are strong, and stiff, holding the flowers erect; these are of large size, nearly 4 inches in diameter, the petals being very broad and overlapping, of great substance, and spread out flat, forming a very regular flower; in color a brilliant scarlet with coppery hue which is intensified by the golden yellow with which each petal is heavily tipped. Comes about 50% true from seed.

Pkt. 10c.

**\*Stand-Holder**—Large flowers, more or less yellow bordered, and with lighter or darker red wings around the center. The petals are broad but occasionally tubular with an inclination to doubleness. Blooms early and the stems are stiff and long.

Pkt. 10c.

**\*Grandiflora (Perennial)**—A compact variety, forming bushy plants 12 to 15 inches high, and bearing its long-stemmed flowers well above the foliage. In coloring the flowers are as rich and varied as those of the tall-growing sort.

Pkt. 10c; oz. 50c

**\*Butzer's Special Mixture of Gaillardias**—A grand assortment of all varieties. Fine for cut flowers. Pkt. 10c

All the following Picta sorts are most elegant annuals and well deserve generous plantings.

**Picta**—Red and yellow; very brilliant. Pkt. 5c; oz. 50c

**Picta, Lorenziana**—Double; mixed colors; flowers large.

Pkt. 5c; oz. 50c

**Picta, Mixed**—Finest colors. Pkt. 5c; oz. 50c.

## GAURA

**Lindheimeri**—3 ft. A graceful plant bearing numerous spikes of rosy white flowers from July until frost.

Pkt. 10c

## STIM-U-PLANT

An All the Year Fertilizer

**GERBERA (Transvaal Daisy)**

**Jamesoni Hybrids**—They are half-hardy perennials, usually grown as greenhouse or window plants. The daisy-like blossoms, 2 to 4 inches across, being borne on long stems, are unsurpassed as cut flowers, as they are of wonderful lasting quality. For garden culture in cold climates the plants are wintered over in cold frames like pansies, etc. They are easily grown from seed and will commence flowering the first year, although old plants will produce the greater abundance of bloom. The colors include a galaxy of incomparable delicacy and richness, in which a wilderness of tints from pure white through yellow, orange, salmon, rose, cerise and ruby-red to violet are represented. Does remarkably well in California. Pkt. 25 seeds, 25c.

**Gerbera**—Scarlet shades. Pkt. 25c.

**\*GEUM**

Geums belong to the Rose family. The species described are showy, free-flowering kinds producing a wealth of attractive flowers which are much prized for cutting. They are of a tufted habit of growth with pinnate leaves. Excellent for border culture. To avoid wilting after cutting put stems in warm water.

**Lady Stratheden (Golden Ball)**—Flowers loosely double, a delightful shade of golden yellow. Cut blooms of this with sprays of Euphorbia Polychroma make a charming cut flower combination. Pkt. 15c.

**Mrs. Bradshaw**—The double orange-scarlet flowers are very large and full; comes quite true from seed and blooms the first year. 2 ft. June-September. Pkt. 10c.

**GILIA**

A hardy annual, growing 12 inches high, small delicate flowers valuable for rock work or borders. Tall Sorts, Mixed. Pkt. 5c,  $\frac{1}{2}$  oz. 15c.

**\*GLOBULARIA (Globe Daisy)**

Shrubby plants for the hardy garden or rockery, producing fluffy balls of blue flowers during the summer. They all require light soil in a warm, sunny position.

**Trichosantha**—Dark blue. 12 in. Pkt. 20c.

**GODETIA—Dwarf**

A hardy annual, very valuable for bedding and borders. For mass effects in shades of rose, red or pink it is unexcelled. The satiny cup-shaped flowers cover the compact-growing plants. The seed should be sown in the fall or early spring.

**Brilliant**—Carmine rose. **Lady Satin**—Rose. **Crimson Glow**—Crimson. **Mandarin**—Yellow. **Duke of York**—Rich scarlet. **Rosamond**—Shell pink. **Duchess of Albany**—White. **Rose**. **Gloriosa**—Blood red. **Mixed**

Each of the above, pkt. 5c.

**GODETIA—Schamini Type**

**Tall Double, Azalea Flowered**

Are quite different from other sorts, inasmuch as they throw up flower spikes much like a gladiolus only more graceful, which are closely set by double flowers in bright and attractive colors. An excellent cut flower. Glorify your garden with Godetia.

**Carminea**—Pkt. 5c. **Rosy Morn**—Deep rose. Pkt. 5c.

**Crimson**—Pkt. 5c. **Pink**—Pkt. 5c.

**Mauve**—Pkt. 5c. **White**—Pkt. 5c.

**Rose**—Pkt. 5c. **Fines Mixed of above**—Pkt. 5c.

**GOURLDS (Ornamental)**

These are desirable in many places where an immense amount of vine is wanted quickly. The blooms of some are quite striking and handsome. With many sorts the fruit is unique and ornamental and often useful. The small fancy gourds are excellent toys for children, while the larger gourds may be used as dippers, sugar troughs and bowls. **Orange Shape**—Pkt. 5c.

**Apple Shape**—Pkt. 5c. **Dipper Shape**—Pkt. 5c. **Bottle**—The original Thermos bottle. Used by the pilgrims of the Orient. Pkt. 5c.

**Calabash or Pipe Gourd**—Odd-shaped fruit which is used to an advantage in making pipes. Pkt. 10c.

**Dishcloth or Towel**—Many women prefer a dishcloth made of this Gourd to anything else, as it is always sweet and clean as long as any part of it is left. Pkt. 5c

**Hercules Club**—Fruit grows 3 to 4 ft. long. Pkt. 5c

**Nest Egg**—Fruit looks exactly like a hen's egg and may be used as nest eggs. Pkt. 5c

**Pear Shaped**—Striped yellow and green. Pkt. 5c

**Sugar Trough**—Thick shells, very durable. Pkt. 5c

**Large Varieties Mixed**—Pkt. 5c; oz. 25c.

**Small Varieties Mixed**—Pkt. 5c; oz. 25c.

**All Varieties Mixed**—Pkt. 5c; oz. 25c.

**GREVILLEA**

**Robusta (Silk Oak)**—1 to 5 ft. It is easy to manage, grows rapidly from seed, and is pretty in all stages of growth; with its long, drooping, silky foliage it reminds one of a palm or fern. Pkt. 10c

**GYPSOPHILA**

Graceful plants of light fairy-like growth. Much in demand for cutting and combining with other flowers for bouquets and vases.

**Elegans Grandiflora Alba (Angel's Breath)**—This is an improved, large-flowering, pure white, of free, easy growth. Several sowings should be made during the season to keep up a supply. Pkt. 5c;  $\frac{1}{2}$  oz. 20c; oz. 30c

**Elegans Crimson**—Pkt. 5c.

**Elegans Carminea**—Pkt. 5c.

**Deep Pink**—Pkt. 5c.

**Elegans Rosea**—Soft pink. Pkt. 5c.

**Muralis**—6 in. A lovely little rock or edging plant with rose-pink flowers. Pkt. 10c

Those marked \* are Perennials

**\*GYPSOPHILA (Perennial)**

**Paniculata (Baby's Breath)**—2-3 ft. July-August. Small flowers on branched stems, so thick as to give the plant a white lace-like effect. Per pkt. 10c

**\*Paniculata Flore Pleno (Perennial)**—A great improvement on the single-flowered type and more lasting, the flowers forming miniature balls of white petals. Not quite fixed, but about 25 per cent come true. The plant is difficult to propagate by division, and seedlings prove much more vigorous. Pkt. 10c

**\*Repens**—Dwarf white, fine for rockery. Pkt. 15c.

**Repens Rosea**—Pkt. 15c.

**\*HELENIUM (Sneezewort)**

Late-flowering hardy perennials; broad heads of elegant, golden-yellow flowers; fine for cutting. 5 to 6 ft.

**Autumnale superbum**—Pkt. 10c.

**Riverton Beauty**—Rich lemon-yellow, with a large purplish-black cone. Per pkt. 10c

**\*HELIANTHEMUM**

**Mutable (Rock Rose)**—Low-growing evergreen plants forming large clumps, completely covered with bloom during July and August. Pale rose changing to lilac then to white. 8-12 in. Excellent for rockeries. Mixed colors. Pkt. 10c

**HELIANTHUS (Sunflower)**

Hardy annuals, of stately growth, remarkable for size and brilliancy of their flowers. Very useful as cut flowers. Effective in forming background of large beds or borders and for distant effect.

**Chrysanthemum Flowered**—Perfectly double; the color is the brightest golden yellow. The flowers are so perfect in form that they resemble very much double Chrysanthemum-Flowered Asters, with long stems; grows seven feet high, and bears profusely all summer long. Pkt. 5c; Single, all colors. Pkt. 5c

**Dwarf Red**—Pkt. 5c.

**Nanus Flore Pleno**—2 $\frac{1}{2}$  feet. Double dwarf, beautiful for massing in beds. Pkt. 5c

**Russian Mammoth**—Single, of gigantic dimensions. For larger amounts see Farm Seed pages. 1 oz. 5c

**Miniature-Flowered Sunflowers**—The varieties of *Helianthus cucumerifolius* form spreading bushes with small graceful foliage and bear a multitude of small elegantly formed flowers, which are borne for a long time in succession, and are invaluable as cut flowers. Pkt. 10c; oz. 40c

**\*HELIANTHUS (Hardy Sunflower)**

Hardy, perennial Sunflowers flourish splendidly in any garden, city or country. They are a beautiful race of sturdy, showy plants, invaluable for cutting, as they last so long in water.

**Angustifolius (Autumn Glory)**—5 to 7 ft. The great massing branches are a sheet of solid bloom of the clearest and richest golden yellow. Flowers are like great daisies flecked with gold. Blooms very late in season after frost has killed everything else. Per pkt. 15c

**HELIOTROPE**

**Flowering Heliotrope Plants** (from seed grown in spring)—It is but little known that seed sown in February and March will produce large flowering plants the first summer. Our mixture contains seeds from many named sorts, and will produce fine plants with proper treatment.

**Mammoth Flowering**. Pkt. 10c.

**STIM-U-PLANT**

AN ALL THE YEAR  
FERTILIZER

## HELICHRYSUM (Everlasting Flower)

A free-flowering, hardy annual, growing four to five feet high and bearing beautiful straw-like flowers in a great variety of shades and colors. The stems are long and the blossoms large. It is the best and most satisfactory of the everlasting flowers, and makes a very handsome dried bouquet.

Crimson. Pkt. 5c.	Rose Queen. Pkt. 5c.
Fireball. Pkt. 5c.	Scarlet. Pkt. 5c.
Silverball. Pkt. 5c.	Salmon Queen. Pkt. 5c.
Goldenball. Pkt. 5c.	Violet Queen. Pkt. 5c.
Rose Carmine. Pkt. 5c.	Finest Mixed. Pkt. 5c.

## \*HEUCHERA (Coralbells)

Beautiful plants for front row of borders, with slender, fairy-like spikes of richly colored flowers; most striking in the garden and light and graceful for cutting.

*Sanguinea Hybrida Grandiflora*—New large flowered hybrids, very fine. Per pkt. 25c

## \*HIBISCUS (Rose Mallow)

Noble shrub-like plants, with handsome green foliage, bearing throughout summer large bright flowers, from 3 to 5 inches in diameter. Very hardy. Suitable for garden and indoor use when cut.

*Golden Bowl*—Deep cream, with a velvety maroon center. Pkt. 10c

*Mixed Mallow Marvels*—Grand assortment. Pkt. 10c

## \*HIERACIUM

*Villosum* (Shaggy Hawkweed)—12 in. July. Plant is covered with a white silkiness effective for its large golden yellow flowers and silvery foliage, suitable for rock work. Per pkt. 15c

## \*HOLLYHOCK

A hardy perennial of upright, stately growth, five to eight feet high. The very double varieties are the most desirable, but the newer, semi-double, fringed types are also very popular. Hollyhocks make a fine row in the garden, or a fine background next to a building or high wall or fence.

*Allegheny*—Mixed. The semi-double, fringed variety. An artistic and pretty sort. Pkt. 10c

*Double Varieties*—White, Maroon, Rose, Scarlet, Salmon, Yellow, Crimson, Blood-red. Each color, pkt. 10c

*Newport Pink*—The finest pure pink, exquisite shade. Pkt. 10c

*Double Imperator Improved*—4 to 5 ft. Flowers measure 5 to 6 in. across with an entirely new formation. The blooms are composed of a very broad collar of frilled and fringed petals in a kaleidoscopic variety of color hitherto unknown in the genus. Very vigorous branching type. Pkt. 25c

*Double Varieties, Mixed*—Pkt. 5c.

*HONESTY (See Lunaria)*

*HYACINTH, Bean (See Dolichos)*

*IBERIS (See Candytuft)*

## ICE PLANT

*Mesembryanthemum Crystallinum*—6 in. Foliage very ornamental, being covered with ice-like globules and prized for garnishing; a valuable plant for dry, sunny situations on banks, rockwork, old walls and ruins, etc., also for sunny borders. Pkt. 5c

## \*INCARVILLEA

*Grandiflora*—Likes a sunny situation, spikes of elegant Gloxiniæflora-like flowers. Finely cut foliage. Pkt. 10c

## \*INULA

*Ensifolia*—9 in. July-Sept. Vigorous plant and a continuous bloomer with large yellow aster-like flowers and rather coarse foliage. Per pkt. 25c

## IPOMOEA

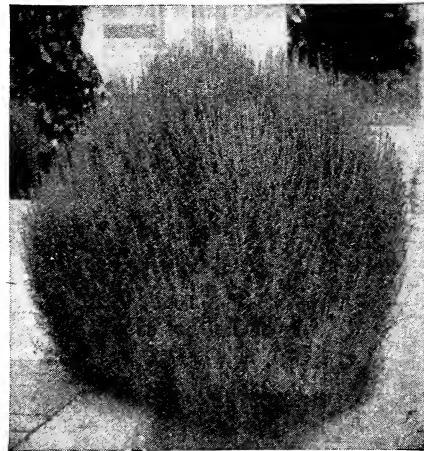
Beautiful rapid annual climbers. Foliage very dense and in some kinds of remarkable shape. The flowers in their wide range of delicate coloring are poison on slender stems.

*Grandiflora Alba*—(Moon Flower)—Large white blossoms, five to six inches across, which expand at night. Pkt. 10c

*Sky Blue*—(Moon Flower)—Of strong, vigorous growth, the plants quickly attain a height of twelve to fifteen feet. Pkt. 10c. Fine Mixture—Pkt. 5c

*JOB'S TEARS*—See "COIX"

Those Marked \* are Perennials



## KOCHIA

*Kochia (Standing Cypress, or Belvedere)*—An easily grown annual, which, sown thinly in spring, soon forms a cypress-like hedge of the most lively green and of perfect symmetry; by mid-summer it attains a height of about three feet, and on the approach of autumn the whole plant becomes a deep red. Pkt. 5c; ¼ oz. 25c

## \*KUDZU VINE (Pueraria Thunbergiana)

A new climber of great merit. This vine is one of the most rapid climbers there is, growing to 20 feet quickly. Called also Jack-and-the-Bean-Stalk. Hardy perennial. Pkt. 10c; oz. 50c

## LANTANA

*Hybrida, Mixed*—2 ft. Shrubby plant with Verbena-like flowers in shades of white, red and yellow. May be grown in pots or set out in summer. They have an agreeable aromatic perfume. Pkt. 10c

## LARKSPURS

This is one of the best known garden flowers. A vast improvement has been effected, by careful selection and attentive cultivation, in size and color of the blossoms and the general habit of the plant. Hardy annuals. (For Perennial Larkspurs, see Delphinium.)

*Los Angeles*—Brilliant rose on salmon ground. This variety has the same habit as LaFrance and is highly recommended for florists' use. Pkt. 15c.

## LA FRANCE

This is a Larkspur novelty of real merit. The La France is the most striking color of all and without question is the most outstanding novelty for 1931. The flowers are of a pleasing salmon-pink. The large well-formed double flowers are well placed on the long stems to set off its attractions. La France Larkspur presents a beautiful appearance, which has won nothing but praise from all who have had the pleasure of seeing it in bloom. We believe that this will be the most popular annual. Per pkt. 10c

## TALL DOUBLE STOCK FLOWERED LARKSPUR

The following are the best varieties:

Bright Rose—Pkt. 5c. Flesh—Pkt. 5c.

Dark Blue—Pkt. 5c. Lilac—Pkt. 5c.

Delicate Lavender—Pkt. 5c. Scarlet Rose—Pkt. 5c.

Rose—Pkt. 5c. White—Pkt. 5c.

*Special Mixture*—Annual Larkspurs. A charming mixture containing all the bright and delicate shades, makes wonderful cut flower material and should be planted generously. Pkt. 5c.

## \*LATHYRUS LATIFOLIUS

(Hardy Pea)

Very decorative climbing vines of the Pea family, for growing on fences, trellis, etc., as floral screens and for cutting. Blooms all summer.

Pink Beauty—Pale pink variety. Pkt. 10c.

Rubra—Bright rosy crimson. Pkt. 10c.

White Pearl—Large-flowering white. Pkt. 10c.

Mixed—The above colors. Pkt. 10c.

## LAVATERA

The Lavateras or Annual Mallows are showy and effective plants covered during the entire summer with bloom. For large borders and cutting they are very desirable.

*Splendens Alba*—Very large, silky, pure white flowers. Pkt. 10c.

*Splendens Rosea*—Very large, bright rose flowers. Pkt. 10c

*Splendens Mixed*—Pkt. 5c.

## LEPTOSIPHON

**French Hybrids**—Free flowering hardy annuals useful for edging and rockwork. Plants are thickly studded with charming bright flowers of various colors. Pkt. 10c

## LEPTOSYNE

*Stillmanni*—1½ ft. One of the quickest annuals, blooming within five weeks from date of sowing, and the golden-yellow flowers continue in perfection for a long period. Excellent for cutting. Pkt. 10c

*Maritima*—3 ft. Large lemon-yellow Marguerite-like flowers on long stalks. Pkt. 10c

## LILY SEED

The seed can be sown in flats at any time giving the same treatment as Tomato seed, and lined outside in rows about four inches apart as soon as the weather permits. These will do well in any soil with good drainage and will give you blooming size bulbs the second year. Try a package. The results will please you.

*Lilium Auratum*.

*Lilium Regale*.

*Lilium Cordifolium*.

*Lilium Seed Mixture*.

*Lilium Elegans*.

*Lilium Tenuifolium*.

*Lilium Japonicum*.

*Lilium Washingtonianum*.

*Lilium Platypodium*.

*Lily Bulbs*—See Page 69

Each of the above, pkt. 25c.

## LILY SEED MIXED

Lilies can be grown from seeds, with very little care and some of them will bloom the second season. To those that are not particular as to varieties, we have made a mixture of all the varieties we list and a few more of which we had only a small quantity of seed. These are yours as long as they last at 25c per package.

## \*LINARIA (Toad Flax)

Showy free-flowering plants of a trailing habit. Good for borders, window boxes or rockeries.

*Cymbalaria (Kenilworth Ivy)*—3 in. Dainty lilac and orange; flowers throughout summer; trailing habit.

Per pkt. 10c

*Dalmatica Macedonica*—The dainty flowers resemble those of snapdragon, bright yellow with orange tip. 25c per pkt.

## LINUM

*Grandiflorum Rubrum* (Crimson Flax)—2 ft. One of the most brilliantly colored of summer annuals, flowers glowing crimson-rose. Very beautiful in beds and borders, and may be had in bloom from May to October by successive sowings.

Pkt. 5c

\**Perenne Blue*—May-Aug. 2 ft. Has dainty sky-blue flowers on graceful arching stems. Blooms short lived but are produced continuously in such profusion it creates the effect of blue sheen over the plant.

Per pkt. 10c

## LOBELIA

A hardy annual and hardy perennial. The annual grows four to six inches high, is of compact growth, and literally covered with small bright flowers. By cutting back the plants during the summer and giving plenty of water, they may be kept in flower all summer. Used for ribbon work and borders or hanging baskets.

*Crystal Palace Compacta*—Rich, deep blue; dark foliage; the finest dark blue for bedding.

Pkt. 10c

The following variety is especially effective in hanging baskets or window boxes, where a long drooping effect is desired.

Pkt. 10c.

*Speciosa*—True dark blue, dark foliage. Pkt. 10c.

*Sapphire*—Large, deep blue flowers, with a pure white eye which occupies one-third of the corolla. Pkt. 15c

*Love in the Mist*—See Nigella.

## LUNARIA

*Annua (Biennis)* (Honesty or St. Peter's Penny)—Flowers purple, followed by silvery seed pods, prized for winter decoration. Annual but readily self-sows.

Per pkt. 10c

## LUPINUS

Tall Annual Varieties Mixed—2 ft. Ornamental, free flowering, easily grown, with long graceful spikes of rich and variously colored pea-shaped flowers; valuable for mixed flower borders and beds. Pkt. 5c; oz. 20c

Dwarf Annual Varieties Mixed. 1 ft. Pkt. 5c; 1 oz. 20c

## \*LUPIN (Perennial)

Most beautiful hardy border plants producing tufts of soft green foliage, from which arise in continuous succession the stately spikes of bloom.

*Polyphyllus* (Old-fashioned Garden Lupin)—Blue. 3 ft. Stately spikes of blue flowers all summer.

Pkt. 10c

*Albus*—Large pure white spikes. Pkt. 10c.

*Roseus*—4 ft. Light and dark rose flowers on long stem; fine for cutting. Pkt. 10c

*Mixed*—Splendid value. Pkt. 10c.

## \*LYCHNIS

*Alpina*—Close tufts, olive green foliage, clusters of rose colored flowers. Pkt. 20c

## MALOPE (Mallow-Wort)

Showy plants for large mixed flower and shrubby borders. The flowers are large and handsome.

*Grandiflora Mixed*—Pkt. 10c.

## MALLOW (See Lavatera)

## MARIGOLD

A hardy annual, shrubby plant, in dwarf and tall varieties, growing from six inches to three feet high.

## AFRICAN MARIGOLDS

*El Dorado*—Large double imbricated flowers in all shades of yellow; 3 ft. Pkt. 5c

*Lemon Ball*—A counterpart of Orange Ball, except in color, which is a soft lemon-yellow. Pkt. 5c

*Orange Ball*—Large, perfect double-quilled flowers, of a rich deep golden-orange color; the finest of all and very showy. Pkt. 5c

Fineest Mixed—Pkt. 5c.

## DWARF DOUBLE AFRICAN MARIGOLDS

Few annuals are as effective as the French Marigolds or flower so long a period; they all form dense bushes not over 12 inches high, and are unequalled for borders or beds.

*Dwarf Orange Ball*—A splendid pure golden yellow, flowers of good size and makes a very effective golden line or bed. Pkt. 5c

*Dwarf Lemon Ball*—Similar to the above except in color, which is a light lemon-yellow. Pkt. 5c

*Dwarf Finest Mixed*—Pkt. 5c.

## FRENCH TALL DOUBLE

Fineest Mixed—Pkt. 5c.

## DWARF FRENCH VARIETIES DOUBLE

*Dwarf Dark Brown*—Beautiful reddish brown. Pkt. 5c

*Dwarf Legion of Honor*—Brown, spotted yellow. Pkt. 5c

*Robert Beist*—Dark Brown and Orange. Pkt. 5c.

Fineest Mixed—Pkt. 5c.

## DWARF SINGLE FRENCH MARIGOLD

*Fire Cross*—Red and yellow. Pkt. 5c.

*Legion of Honor (Little Brownie)*—A single-flowering Marigold, forming compact bushes 9 inches high. Begins flowering early, commencing in June, continuing until frost. The flowers are golden yellow, marked with a large spot of velvety crimson at the base of each petal. Pkt. 5c

Fineest Mixed—Pkt. 5c.

*Mexican Marigold*—See *Tagetes Signata Pumila*.

*MARVEL OF PERU* (See Four o'Clock)

## MATTHIOLA

*Bicornis* (Evening-scented Stock)—15 in. The flowers in the morning, evening and after a shower emit a delicious perfume perceptible at a considerable distance. Pkt. 10c

## MATRICARIA

*Capensis Fl. Pl. (Feverfew)*—3 ft. Neat, small, double white quilled flowers, well adapted for bedding and cutting. They are perennials in mild climate. Pkt. 10c

*Eximia, Golden Ball*—1 ft. Of compact habit, suitable for edging, with very striking double yellow flowers. Pkt. 10c

## MECONOPSIS

*Baileyii*—The new and beautiful blue Thibetan poppy. It is a graceful plant, with downy pale green leaves, the brilliant Cambridge-blue pendant flowers, 4 inches across, being carried singly on stems about 2 feet high. Pkt. 50c

Those marked \* are Perennials

## MIGNONETTE (Reseda)

A well-known fragrant favorite, and no garden is complete without a bed of Mignonette; sowings made in April and again in July will keep up a succession from early summer until frost; can also be grown in pots for winter and early spring flowering.

**Sweet-Scented (Reseda Odorata)**—The old-fashioned variety with small spikes, but the most sweetly scented of all. Pkt. 5c; oz. 15c

**Machet**—Adapted for pot culture; dwarf pyramidal growth, bearing numerous flower stalks; highly colored and very fragrant. Pkt. 10c; ¼ oz. 25c; oz. 75c

**Red Goliath**—Of strong, yet compact habit, with rich green foliage; the giant trusses of flowers being borne on erect, strong, stiff stalks and surpassing all others in brilliancy of color; especially suited for house culture. Pkt. 10c

## MINA

**Lobata**—12 ft. A climber of luxuriant growth, with tube-shaped flowers; produced in greatest profusion. In color they are particularly attractive, the bud being first bright red, but changing through orange-yellow to creamy white when fully expanded. Pkt. 10c.

## MOON FLOWER—See Ipomoea MORNING GLORY

**Tall Morning Glories Mixed**—A great variety of colors of the old-fashioned, popular, rapid-growing climber. Oz. 15c; pkt. 5c.

**Dwarf Morning Glories Mixed**—Hardy annual, one foot in height. Colors range from pure white to deep purple. Oz. 20c; pkt. 5c.

**Imperialis (Japanese Morning Glory), Fine Mixed**—The Japanese Morning Glory requires a warm situation to do well. The south side of a wall or building where the plants are protected from the north and west winds will mostly be found beneficial for these vines. ¼ lb. 55c; 1 oz. 25c; ½ oz. 15c; pkt. 10c.

**Setosa (Brazilian Morning Glory)**—A summer climber, making a dense shade. Flowers rose colored; three to four inches in diameter. Pkt. 5c.

## NASTURTIUMS, Dwarf



**Dwarf Nasturtiums Mixed**—This splendid mixture contains all the named varieties and every color. No finer mixture can be made. They will produce enormous flowers on long stems, in a wonderful variety of colors. Pkt. 5c; oz. 10c; 2 oz. 15c; ¼ lb. 30c; lb. \$1.

## DWARF NASTURTIUMS

**Aurora**—Bright chrome-yellow flowers attractively veined with purplish crimson. A profuse bloomer with strong, sturdy bushes carrying a magnificent display of large, well-rounded blooms. The foliage is rich green. Pkt. 5c; oz. 15c; 4 oz. 50c

**Dwarf Beauty**—The large, nearly-round flowers are a glowing shade of orange with scarlet markings. A most appealing variety which will make a fine show in the garden. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**Bronze Colored**—Of a peculiar burnished bronze color. Per pkt. 5c; oz. 15c; ¼ lb. 50c.

**Chameleon Dwarf**—Flowers of most diversified coloring and many brilliant markings on a single plant. Per pkt. 5c; oz. 15c; ¼ lb. 50c

**Cloth of Gold**—The bright golden yellow leaves form compact plants above which the brilliant scarlet flowers stand out with a sharp but pleasing contrast. Pkt. 5c; oz. 15c; ¼ lb. 50c

**Empress of India**—This variety shows a fine contrast between the rich salmon-scarlet flowers and the deep purplish green leaves. One of the finest for borders or beds. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**Golden King**—A very fine rich glowing orange-yellow which blends well with the dark purplish green foliage. Pkt. 5c; oz. 15c; ¼ lb. 50c

**Golden Queen**—Of finely rounded form, only six to eight inches high and with small light golden-green leaves. The flowers are self-colored in a rich tint of orange-yellow, intensely glowing. Pkt. 5c; oz. 15c; ¼ lb. 50c

**King of Tom Thumbs**—Glowing pure scarlet flowers of large size and perfectly round shape. An excellent free bloomer. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**King Theodore**—A fine variety with dark green foliage and rich velvety crimson flowers. Fine well-rounded bushes. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**Spotted King or Lady Bird**—Golden yellow, barred crimson. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**Vesuvius**—The flowers are large; of fine form. The petals are salmon-rose, heavily veined with salmon-orange. Pkt. 5c; oz. 15c; ¼ lb. 50c.

## DWARF "IVY-LEAVED"

**All Colors in Mixture**—This mixture, like the Tall Ivy Leaved Mixture, contains a most remarkable range of colors. There are colors and color combinations that are not found in any other strain of Nasturtiums. It is indeed a glorious mixture! Every one who grows Nasturtiums should plant at least a packet of the seed, in order to become acquainted with this grand new type. Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00, postpaid.

## NEW SWEET-SCENTED

## Dwarf Double NASTURTIUM “GOLDEN GLEAM”

The plant forms a vigorous, large bush which throws out short runners, averaging eighteen inches. The flowers commence to come as soon as the plant nears complete development, and at the time it is in full bloom the entire plant, including the runners, is a blaze of color. The large, golden-yellow flowers average two and one-half to three inches across. They are borne on erect, stiff stems six inches in length. Consequently the flowers stand well above the foliage, to an arrangement which adds immeasurably to the showy appearance of the plant.

Per Packet 25c

# TALL OR TRAILING NASTURTIUMS



**Brilliant**—Bright scarlet flowers held above the dark green leaves. A very showy flower of large size and heavy substance. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c.

**Butterfly**—The color is a light lemon-yellow, marked on the three broad lower petals with a blotch of rich terra cotta red. The two upper petals are marked in shades of bright red. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c

**Cameleon (Tall)**—Not only are the flowers of various colors produced on the same plant, but these flowers are variously splashed and bordered. On the same plant are found self-colored flowers, some curiously stained, while others are banded with light or dark shades. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; per lb. \$1.20.

**Cloth of Gold**—This fine variety is outstanding because of the contrast of the velvety maroon flowers against the golden yellow foliage. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c

**Firefly**—Bright yellow, spotted cardinal red, calyx and spur ruby. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c.

**King of the Blacks**—Dark mahogany-red blooms and deep bluish green foliage. A strong grower and very free bloomer. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c.

**Moonlight**—Exquisite light straw-yellow flowers of unusual size borne in great profusion. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c

**Sunlight**—The flowers, of largest size, are most beautifully colored—clear, rich, golden yellow. Individual flowers measure nearly three inches across, and are produced most profusely. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c

**Scarlet**—The flowers are of magnificent size and of compact, rounded form. The color of the flowers is a magnificent bright scarlet. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c

**Twilight**—The flowers are extra large and most pleasing in color, having a faint salmon or buff tint, heavily suffused with rosy salmon. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c

## TALL MIXED COLORS

## NASTURTIUMS, TALL OR TRAILING

These are all of strong, vigorous growth, throwing out running shoots that can be trained upon strings or wires, or can be readily made to climb ordinary paling fences or wire netting. They are very showy, also, planted at the top of a steep slope and allowed to run down the bank.

## BUTZER'S ROSE CITY MIXTURE OF TALL NASTURTIUMS

This mixture is absolutely unequalled: nothing better to be had anywhere. In it will be found all the choicest colors of tall Nasturtiums, of all the new shades, as well as the standard sorts. Pkt. 5c; oz. 10c; 2 oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.

## TALL IVY-LEAVED NASTURTIUMS

The plants are of running growth, with star-like pointed leaves of rich green, veined with white, so that the young shoots, where the leaves are set closely together have a marked resemblance to the foliage of the hardy English Ivy. The flowers are of medium size and of most distinct form. The petals are quite narrow, and standing well apart from each other, present a striking star-like appearance. Many colors mixed. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c.

## NEMESIA—1 foot

Free-blooming dwarf bushes for pot culture and open borders. Sow in spring under glass, and transplant; or sow out of doors in May, in patches where they are intended to flower.

**Large Flowered Mixed**—1 ft. It is the finest strain of the most popular flower, both for size and massive build of the individual flowers, also for the richness and variety of colors. Pkt. 10c.

## NEMOPHILA (Baby Eyes)—6 inches

Harikest of annuals, and of the easiest culture. Makes a very effective front row to a bed or border, and should be sown out-of-doors in spring, in patches, where they are to flower.

**Insignis Mixed**, all colors—Cup-shaped flowers in many bright colors, the blue shades being particularly attractive. Pkt. 10c

## NEPETA

These little plants give clouds of bright blue flowers all summer. Makes a fine permanent edging and an excellent rock plant.

**Mussini**—May-September. Light blue. 1 ft. Pkt. 10c

## NICOTIANA (Sweet Scented Tobacco Plant) 2 ft.

One of the easiest annuals to raise and one of the most effective. The blossoms in shape are not unlike a Petunia blossom, but with a longer tube. The flowers open toward evening and emit a powerful perfume.

**Nicotiana Affinis Hybrids**—Mixed Colors. Pkt. 10c

**Affinis**—The popular free-flowering variety; fragrant star-shaped white flowers; annual, 3 feet high. Pkt. 5c

## NIEREMBERGIA

**Gracilis**—6 in. Flowers white, shading to and veined lavender, an exceedingly graceful plant for hanging baskets, rockwork, etc. Pkt. 10c

## NIGELLA

(Love in a Mist, or Devil in the Bush)—A compact free flowering plant, with finely cut foliage, curious-looking flowers and seed pods; of easy culture, growing in any garden soil; hardy annuals; blue and mixed; one foot.

**Mixed**—Pkt. 5c.

**Double White**—Pkt. 5c.

**Double Blue**—Pkt. 5c.

**Double Purple**—Pkt. 5c

**\*OENOTHERA**

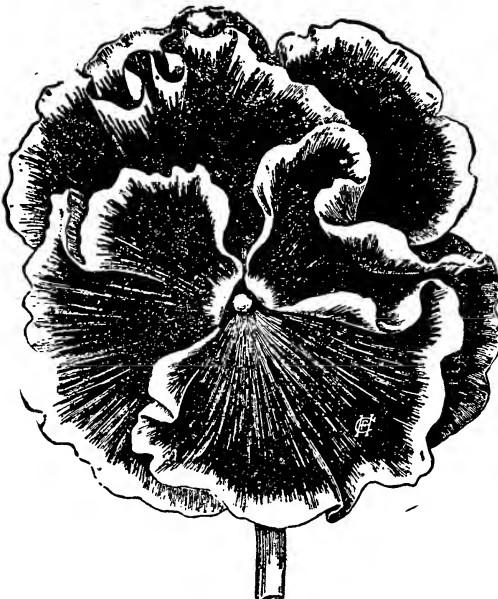
These open their flowers in the evening and one can enjoy a thrill in his garden if he will sit for 15 minutes at twilight and watch the Evening Primroses (*Oenothera*) drop their calyx and unfold their petals. We have had a plant in our garden. The buds are closed when we start the hose going, but before we get through, presto! a wealth of large golden blooms greets us and bids us "good-night."

*Lamarckiana* Evening Primrose, Mixed— $\frac{1}{2}$  to 2 ft. Neat plants, with large, saucer-shaped flowers, white or golden-yellow; open at dusk; emit a delightful perfume.

Pkt. 10c

*Missouriensis* (*Macrocarpa*)—1 ft. Long trailing stems with large yellow flowers.

Per pkt. 10c



Pansies with their alluring little faces are among the most popular of all the Spring flowers, and are to be found in practically every garden, for they have such a charm and fill so many nooks, here and there, as well as being most effective when planted with Forget-Me-Nots as a border in large beds. Of course, everyone wants those extra large flowers with the particularly handsome colors.

Our strains are procured from the most experienced foreign and domestic, and the seed we offer is the equal of any on the market. The flowers will be found unsurpassed for size and form, beautiful markings, brilliancy of colors and shadings. If seed is sown indoors from February to April Pansies will begin to bloom from July on. Seed sown in May will flower during late Summer and Autumn. For early Spring flowers sow in September and October and protect the young plants either in coldframes or with straw or boughs. Soil best suited is light, well fertilized and supplied with plenty of moisture.

**BUTZER'S ROSE CITY GIANTS**

The plants distinguish themselves by their robust growth, and form compact bushes of round shape, with strikingly large, healthy looking foliage.

The imposing five-spotted flowers which on long, vigorous stalks surmount the foliage in the most graceful manner, are of enormous size, perfectly round form, original structure and unusual substance. The individual petals are exceedingly broad and cover each other in such a manner as to make the flowers appear almost double. With most of the flowers the border of every petal being conspicuously undulated and curled, which grants the flowers a striking and very peculiar appearance, entirely new to this class of plants.

The beauty, brilliancy and richness of color being the most striking: also very rare and new tones of red and brown are met with in these flowers. Pkt. 25c.

**BUTZER'S GIANT PANSIES****BUTZER'S GIANT MIXED**

An imported mixture of fine types, including a large variety of splendid colors.

Pkt. 10c

**BUTZER'S MAMMOTH FIVE BLOTTCHED**  
from named varieties. The immense flowers of this class, resembling Cassier's but being of almost double the size, full round form and comprising the most magnificent colors.

Pkt. 10c

**BUGNOT'S GIANT SPOTTED**

Very large and magnificently colored, extra fine quality.

Pkt. 10c

**CASSIER'S SUPERB STRAIN**

Very large, well-formed, beautifully blotched flowers in the greatest variety of colors, extra fine.

Pkt. 10c

**SWISS GIANTS**

A truly magnificent new strain of Giant Pansies, more beautiful than any others we have ever seen. It produces well rounded, compact plants which are literally covered with immense, heavy blooms of remarkable substance and texture. The range of color is simply remarkable and by far the majority of plants bear heavily ruffled and crinkled blooms, carried on long stiff stems.

Pkt. 25c.

*Swiss Alpenglow*—The color is of a rich velvety garnet with three dark blotches. A most striking and attractive color.

Pkt. 25c

**AUREOLA**

The lower three petals of rose, carmine or purple-red ground-color, with very effective large dark-spots; the upper two petals of lighter coloring, whitish to yellow, with rose to dark red border; a charming mixture of colors.

Pkt. 10c.

*Mastodon*—Huge in size, marvelous in form and including many new and unique shades, with many variations in each.

Pkt. 15c.

*Masterpiece* (Frilled Pansy)—A remarkable type, each petal being conspicuously curled and waved. The range of color is very extensive, the rich, dark, velvety shades predominating.

Pkt. 15c.

**PANSIES IN SEPARATE COLORS**

*Adonis*—Light blue, baby blue and lavender shades.

Pkt. 10c.

*Black*—Nearly all jet black.

Pkt. 10c.

*Bronze*—Very large. All the different shades from burnished brass to gold.

Pkt. 10c.

*Grand Duke Michel*—The largest all-white pansy.

Pkt. 10c.

*Improved Beaconsfield*—New. A fine bluish purple with a distinct lavender tinge on the upper part of the upper petals.

Pkt. 15c.

*Improved Isabellae*—A superb ruffled bronze and yellow. Long stems. Very large.

Pkt. 15c.

*Improved Volcano*—A rich, velvety Burgundy red of immense size.

Pkt. 15c.

*Madame Steele*—Elk's purple; immense blooms; a perfect self.

Pkt. 10c.

*Madame Perrett*—With edges of petals frilled bordered white; colors, wine, pink and red.

Pkt. 10c.

*Mlle. Irene*—A shade entirely new to pansies. A henna red.

Pkt. 15c.

*Panama Pacific*—A large yellow; some with dark centers, some without.

Pkt. 10c.

*Parisian Yellow*—A pure yellow.

Pkt. 10c.

*Prince Henry*—A splendid dark blue.

Pkt. 10c.

*Steele's Golden Gate*—A monster Golden Yellow.

Pkt. 15c.

*Striata*—Beautifully striped in true sunburst fashion.

Pkt. 15c.

*White (dark center)*—The largest pansies we have ever seen.

Pkt. 10c.

*Azule Blue, Sky Blue*—Pkt. 10c.

*Beaconsfield*—Lavender, heliotrope and purple.

Pkt. 10c.

*Peacock*—Blue with white edge. Pkt. 10c.

*Snow Queen*—Pure white. Pkt. 10c.

*Victoria*—Nearly scarlet. Pkt. 10c.

*Trimardeaux*—Mixed pkt. 10c.

**PENTSTEMON (Beard Tongue)**

"Sensation."—As a bedding plant this takes rank with the Petunia, Phlox, etc. It grows about 30 inches high, every branch being a spike of large, Gloxinia-like flowers in a very wide range of bright colors, including rose, red, carmine, cherry, pink, lilac, purple, etc.

Pkt. 15c.

## PENTSTEMON

Flowers resemble gloxinias in shape; mottled in crimson, pink, blue and white. Mixed. All varieties.

Pkt. 10c

## PETUNIA

The Petunia is without a peer among annuals for effective summer bedding or indoor culture. They are of easy culture, early to bloom and continue throughout the summer until the first killing frost. No other flower produces a great diversity of color, retaining their freshness for so long a period. The doubles may be perpetuated, if desired, by taking cuttings late in the summer, for winter house blooming plants. Provide good soil and a sunny location.

### GIANTS OF CALIFORNIA, MIXED

The flowers are very large and the colors embrace every conceivable shade of crimson, white, violet, lavender, etc.

Pkt. 15c

### ROSY MORN

Of compact growth, literally covered with flowers one and one-half inches in diameter. The throat is silver-white, while the edge is heavily flushed with soft rose-pink.

Pkt. 10c

### FINE MIXED SINGLE VARIETIES

Fine Mixed—Excellent for bedding; many colors;  $\frac{1}{4}$  oz. 50c.; pkt. 10c.

Hybrida Single Red. Pkt. 10c.

Hybrida Single White. Pkt. 10c.

## DOUBLE PETUNIAS

Our Double Petunias are selected with the greatest of care and contain the largest percentage of double flowers possible.

Giant Double Fringed Mixed. Per pkt. 25c.

## BALCONY PETUNIAS

A splendid large and free flowering type either for window boxes, vases, hanging baskets, etc., the flowers average 3 inches across and make a very effective display over a long season.

Balcony Blue—Velvety Indigo blue.

Balcony Rose—Brilliant rose-pink; very effective.

Balcony Red.

Balcony White—The pure white form.

Balcony Crimson—Rich velvety crimson.

Balcony Mixed—All colors.

Choice of above, per pkt. 10c

## PHACELIA

Campanularia—8 in. A very beautiful annual, producing a terminal raceme of intense gentian-blue flowers with conspicuous white anthers; very effective for edgings, etc., and a charming pot plant. One of the earliest annuals to bloom and flowers last in perfection a long time.

Pkt. 15c

## PHLOX DRUMMONDI

It will grow and thrive in any kind of soil if given a sunny position, but prefers a light, rich loam. Seed may be sown in the open ground any time after danger from frost is past, and in a few weeks they are a sheet of bloom, remaining so until frost. They may be used in a variety of ways, such as a carpet to beds of Roses, in boxes, vases, etc.; but it is when grown in masses, in beds or borders, that they show to best advantage.

Crimson—Pkt. 10c. White—Pkt. 10c.

Flesh—Pkt. 10c. Rose—Pkt. 10c.

Lilac—Pkt. 10c. Scarlet—Pkt. 10c.

Primrose—Pkt. 10c. Violet with white eye—Pkt. 10c.

Fine Mixed—It is composed of the finest and most distinct varieties and will give a most varied assortment of brilliant colors. The trusses are large, well rounded, and closely formed, and the individual florets are of the largest size, firm substance, and most distinct and brilliant colorings.

Pkt. 10c;  $\frac{1}{4}$  oz. 50c.; oz. \$1.50

Star Phlox (Star of Quedlinburg)—Of dwarf habit with very pretty star-shaped flowers. A novel and beautiful variety. Mixed colors.

Pkt. 10c

### \*PHLOX (Hardy)

(Decussata). Perennial varieties mixed from a celebrated collection. Seed slow in germination and may not sprout in a year.

Pkt. 10c

## PHYSALIS

Franchetti (Chinese Lantern Plant)—1½ ft. Flowers yellow with dark center. Produces balloon-like husks, which turn bright red when ripe and resemble Chinese lanterns.

Per pkt. 10c

## PHYSOSTEGIA (False Dragon Head)

3-4 ft. Extremely beautiful with spikes of rosy pink, lilac or white flowers, which are tube-shaped similar to a tiny antirrhinum blossom. The buds and flowers grow on the stem as if growing four sides of a square; very attractive foliage surrounding the graceful spikes. Flowers in August.

Virginia—Dense bushes with spikes of delicate pink tubular flowers.

Pkt. 10c

## PINKS OR DIANTHUS

A magnificent genus, embracing some of the most popular flowers in cultivation, producing a great variety of brilliant colors and profusion of bloom. The varieties classed as annuals are really biennials, but are treated as annuals and may be sown out of doors when the danger from frost is past, and in a few weeks' time they are a mass of bloom, continuing so until after hard frost. As a rule, they survive the winter if given slight protection, flowering abundantly the following season. They grow about a foot high, and can be used in beds or borders of solid or mixed colors. The double flowering sorts are almost as fine as carnations for cutting. They are not particular as to soil, but should have a sunny location.

Double China (D. Chinesia fl. pl.)—Small, double flowers, borne in large clusters, of many colors, mostly with white edge.

Pkt. 5c;  $\frac{1}{4}$  oz. 15c

Heddewig's Double (D. Heddewigii fl. pl.)—Japan Pinks. Very large double flowers of a wide range of color, running from white and light pink through shades of red to rich, velvety crimson and deep maroon almost black.

Pkt. 5c;  $\frac{1}{4}$  oz. 25c

Single Mixed—Large single flowers, of rich and varied colorings.

Pkt. 5c;  $\frac{1}{4}$  oz. 20c

Double Japan Mixed (Chinensis laciniatus)—The flowers are rich in hue; very double, deep fringed petals. Colors vary from white to rose, lilac, carmine, crimson scarlet, purple, brown and almost black, spotted and striped.

Pkt. 10c

All varieties mixed. Pkt. 5c

## DIANTHUS

Sweet Wivesfield—This is an outstanding novelty of easy culture. It is the result of a cross of the Dianthus Allwoodii on the Dianthus Barbatus. The growth is not unlike the Sweet Williams but the flowers are larger and it has a much wider range of color. Besides retaining the brilliant coloring of the Heddewigii strain, which was one of its ancestors, it has many of the dainty markings of the same. Some of the flowers have a honey perfume. One of the most important features is, it may be treated as an annual or biennial as it blooms the first year from seed. Secured a Reward of Merit at Wisley.

Pkt. 15c

## \*PINKS (Hardy)

These very desirable sweet-scented, low-growing early-blooming and free-flowering Hardy Garden Pinks are unequalled for the borders of beds, drives, and the old-fashioned garden and should be planted in quantity in any good garden soil with full sun and an open situation.

Allwoodii—A new race of hardy plants belonging to the Dianthus family. It makes an ideal pot plant. The flowers are about 75 per cent double and appear in all colors except yellow. The single flowers are quite as handsome as the double and have the advantage of making larger clusters. It is exceptionally hardy, commencing to flower in early spring and continuing through summer and fall.

Pkt. (25 seeds) 50c

Caesius (Cliff Pink)—Flowers delicate rose color, fragrant, 1 ft. or less.

Seeds, per pkt. 25c

Deltoides (Maiden Pink)—6 in. Beautiful little plant with narrow leaves, with a profusion of small flowers during July and August.

Pkt. 25c

## \*HARDY PERENNIALS or CLOVE PINKS

Hardy Perennials, or Clove Pinks (Plumarius)—Scotch or Grass Pink. When treated like an annual, if seed is sown in March, the plants will bloom the first year. The delicately fringed, variously colored flowers are fragrant, attractive and fine for bouquets.

Pkt. 10c

## PLATYCODON (Chinese Bell Flower or Balloon Flower)

Very handsome border plants of the Campanula family, the flowers in bud having the appearance of inflated balloons; they flower from June to September.

Grandiflorum—1-2 ft. Large, handsome, deep blue flowers.

Per pkt. 10c

### POPPIES PERENNIAL VARIETIES

Perennial poppies do best in rows one and one-half feet apart and one foot apart in the row. Seed may be sown outdoors either in spring or fall.

*Alpine Mixed*—6 in. A charming miniature poppy with brilliantly colored flowers including white, pink, apricot, yellow or orange-scarlet, etc. Useful for rock-work. Per pkt. 35c

*Oriental Hybrids Mixed*—A choice mixture of Oriental Poppies in shades of white, salmon, orange, scarlet and crimson. Per pkt. 10c

*Oriental Scarlet*—Pkt. 10c.

We do not furnish seed of the opium poppy.

*Nudicaulis (Ice land Poppy)*—15 in. Mixed. Elegant free flowering plants bearing flowers in abundance all summer. Pkt. 10c

*Nudicaule Yellow, Orange, White*—Any color. Mixed, pkt. 10c

*Coonara Pink*—A charming warm rose-pink, faintly suffused with salmon-pink combining the pink and salmon shadings in wonderful delicacy. The plants are more vigorous than is usual in Iceland Poppies, and the flowers are much more freely produced on long, slender stems throughout the season. They will keep well if cut in bud and the end of stems seared for a moment. If sown in the hot-bed in March or April, plants will bloom the same year. Pkt. 25c

### SINGLE ANNUAL POPPIES

*Eldorado Salmon Shades*—The introducer made a selection of these most popular shades and these will especially appeal to those admiring pastel shades in flowers. Pkt. 10c

*Eldorado Pink Shades*—Pkt. 10c.

*Eldorado Mixed*—The flowers are large, single, semi-double and double, and contain magnificent shades of soft salmon, orange, orange-scarlet, pink, rose and white, without any dark markings whatever. The substance of the petals in some of the lighter shades is as delicate as China silk. Pkt. 10c

*Flanders Poppy*—Vivid scarlet-red. This flower has in the minds of men been associated for over two hundred years with the battle-fields of Flanders. Was the first official flower of the American Legion. Pkt. 10c

*Pkt. 10c; ½ oz. 35c; 1 oz. 60c; ¼ lb. \$2.00*

*Glaucum*—Large tulip-shaped flowers of dazzling scarlet; not unlike a Scarlet von Thol Tulip. Pkt. 10c

### DOUBLE ANNUAL POPPIES

*American Flag*—Flowers very large, snow white, scarlet bordered. Pkt. 5c

*Double Cherry Red*—Pkt. 5c.

*Double Heliotrope*—Pkt. 5c.

*Mikado (The Striped Japanese Poppy)*—This beautiful Poppy is very distinct in character and color. The flowers are brilliant scarlet and white, with elegantly curved petals, like a Japanese Chrysanthemum. Pkt. 5c

*Salmon Pink*—Pkt. 5c.

*Cardinal*—A splendid dwarf variety of the carnation-flowered type, growing about two feet high and bearing large globular, fringed flowers of an intense cardinal red. Pkt. 5c

*Shell-pink*—Similar in every way to Cardinal and White Swan, except color, which is a soft sea-shell or chamois-pink. Very dainty. Pkt. 5c

*White Swan*—Immense double flowers, beautifully fringed and of purest white, of the same dwarf habit as Cardinal and Shell-pink. Pkt. 5c

*Double Carnation-Flowered, Mixed*—Of dazzling richness and in a great variety of colors. A remarkably pretty Poppy. Pkt. 5c; oz. 35c

### POPPIES—SHIRLEY

*Shirley Poppies*—Silk or Ghost; have beautiful satiny flowers of various colors, all with white centers, which make the plants very attractive. Foliage is hairy and finely cut.

*American Legion*—Brilliant orange scarlet. Pkt. 5c

*Blue Shirley*—Various shades of blue. Pkt. 10c.

*Rose Shirley*—Shades of rose and pink. Pkt. 10c.

*White Shirley*—Pure white. Pkt. 10c.

*Shirley Mixed*—Beautiful shades in delicate shades of rose, apricot, salmon-pink, and blush to growing crimson with a sprinkling of blues. Pkt. 10c; oz. 30c

### BUTZER'S SPECIAL POPPY MIXTURE

*Double and Single*—Comprises not only all the Double and Single Poppies described, but also a number of other sorts specially purchased for this mixture, including some entirely new ones. Will make a grand display. Pkt. 10c; ½ oz. 20c; oz. 30c

### PORTULACA—Rose Moss

Will grow and bloom abundantly all summer in a dry, hot location, where most other plants will soon die. The flowers are of the richest colors and make a beautiful border.

**Culture for Portulaca**—Sow in open ground when danger from frost is past. Cover the seeds to a depth of four times their size and press the surface firmly with a board. Water with fine spray. Thin out so that the plants will not become crowded. For early flowering sow in hot-bed or shallow boxes in the house in March; transferring to the open ground in May and June.

**Single**—Mixed colors. Pkt. 5c.

**Double**—Mixed colors. Pkt. 10c.

**Double and Single**—Mixed. Pkt. 5c.

### \*POTENTILLA (Cinquefoil)

Potentillas greatly resemble the Strawberry plant, especially in the manner of growth and the foliage. This is a trailing plant which covers the ground rapidly and sends out roots as it goes along. The flowers are very showy, the colors very bright.

*Willmottium Flowers*—Salmon pink, very freely produced. Pkt. 25c

### \*PRIMULA (Primrose)

Exceedingly fine, free flowering plants for both bedding and greenhouse use, producing clusters of brilliant colored flowers indoors from November to May; hardy varieties continually in bloom.

*Primula Malacoides (Baby Primrose)*—This variety is extensively grown for winter blooming. The small lavender-pink flowers are borne in great profusion.

Pkt. 15c; 2 pkts. for 25c

*Primula Malacoides Mixed*—Pkt. 15c, 2 for 25c.

*Veris Polyanthus Mixed*—An extra choice large flowered mixed strain. Pkt. 10c

*Veris Acaulus Mixed*—Pkt. 10c.

*Vulgaris (English Primrose)*—Canary yellow, fragrant. Pkt. 15c

*Japonica Mixed*—Several superimposed whorls of flowers on stems. 8-24 in. high. June. Pkt. 15c

### PYRETHRUM

*Aureum (Golden Feather)*—Dwarf plants with bright yellow foliage extensively used for edging; usually grown as an annual. Pkt. 5c; ¼ oz. 20c

*Hybridum Double and Single Mixed*—Large, daisy-like flowers ranging in colors from light pink to deep red; bloom in spring and fall; height 2 feet. Hardy perennial. Mixed.

*Pyrethrum—White*. Pkt. 10c.

*Pyrethrum—Red*. Pkt. 10c.

### RHODANTHE (Everlasting)

A charming annual; succeeds in a light rich soil and a warm sheltered situation; valuable for pot culture; flowers everlasting.

*Maculata Alba*—White. Pkt. 10c.

*Maculata Rosea*—Rose. Pkt. 10c.

*Mixed*—Pkt. 10c.

### BUTZER'S

#### ANNUAL-FLOWER MIXTURE

A splendid mixture of the true annual flowers so blended as to give a succession of bloom from early spring to late fall. All colors may be found in this mixture. For best results the seed should be sown in a prepared seed bed.

If you have a piece of ground you cannot irrigate or have not time to give particular attention, yet you want to have something beautiful instead of unsightly weeds, we advise you to plant our Annual Flower mixture. It contains a large number of different kinds of hardy varieties that will grow with the least of care, and produce great quantities of flowers.

Pkt. 15c; 2 for 25c; oz. 50c. postpaid

## RICINUS

**Castor Oil Bean (Ricinus)**—This has large leaves and a tropical appearance. All it requires to flourish is heat. It is a quick growing annual, 6 to 15 feet tall. Leaves are green or reddish. Commercial castor beans are of a different variety.

**Red Spire**—The shapely, bushy plants attain a height of about 6 feet, with pretty palmate leaves of a bronzy green with prominent red ribs and veins, and producing through the summer and autumn numerous spikes of flowers or seedpods 9 to 18 inches long, of a brilliant rosy crimson; altogether a most effective semi-tropical plant, valuable alike for its foliage and flowers and like other Ricinus, absolutely insect-proof. As single specimens or in beds on the lawn for filling up corner, or making a hedge or line, this is one of the most ornamental plants ever introduced. Pkt. 10c

**Sanguineus**—Tricolor. Has blood-red stalks and green leaves with red veins. Pkt. 10c; oz. 25c

**Zanzibarensis**—Mixed. A very large leaved variety, deep green and bronze, growing 10 to 15 feet high. Pkt. 10c; oz. 25c

Mixture of all varieties, pkt. 10c; oz. 20c.

## \*ROMNEYA

**Coulteri (California Tree Poppy)**—5 ft. Flowers all summer. Beautiful snowy white fragrant flowers.

Pkt. 15c

## RUDBECKIA (Cone Flower)

**Bicolor Superba**—Fine free-flowering annual variety, growing about 2 feet high; forming a dense bush and producing in great abundance on long stems its bright flowers. The disc is brown, the florets golden-yellow, with large velvety-brown spots at the base; very effective and useful for cutting. Pkt. 10c

**Bicolor Superba**—Semi-double. Pkt. 10c.

**Purpurea (Giant Purple Cone-Flower)**—A most interesting hardy perennial, producing all summer large, showy reddish-purple flowers, about 4 inches across; 3 feet. Pkt. 15c

## SALPIGLOSSIS (Painted Tongue)

These showy, half-hardy annuals bear beautiful funnel-shaped flowers having dark veins in ground which varies from white to crimson, yellow, orange, etc., and intermediate shades. They are easily grown, require a light, rich, sandy loam and will respond to liberal treatment. Bloom from late summer until frost. 2 ft.

Crimson. Brown and Gold.

Dark Red. Crimson and Gold.

Yellow. Purple and Gold.

Scarlet and Gold. Rose and Gold.

White and Gold. Price, any of above, pkt. 5c. each Extra Fine Mixed—Flowers of many beautiful shades, finely veined or penciled. A choice mixture of large flowering varieties. Pkt. 5c; oz. 80c

## SALVIA

**Salvia or Flowering Sage**—A tender perennial blooming the first season from seed and growing two to three feet high. The blossoms are borne on long stems in racemes or spikes, and are fragrant. The plant forms a bunch and blooms profusely during the whole summer and fall.

**America, or Globe of Fire**—This is the freest and most continuous bloomer; also the most uniform in habit of growth, which makes it particularly valuable for bedding or planting in lines. Pkt. 25c

**Salvia Splendens (Scarlet Sage)**—One of the handsomest flowering plants we have for garden decorations. Excellent for filling large beds or borders in the garden; continuously in bloom from early August until the first killing frost. Beautiful scarlet; large flowering. Pkt. 5c; ¼ oz. 50c

**Clara Bedman (Fireball)**—The plants form handsome globular bushes about two feet in diameter. The spikes grow upright and stand clear above the foliage, completely enveloping the plant, and are of a most brilliant dazzling scarlet. Pkt. 10c

**Pratensis Atro-Violacea**—Dark violet, 20 in. Pkt. 25c

**Zurich**—A splendid dwarf variety, growing about 2 feet high, and is especially valuable on account of being the earliest to bloom, flowering ten days in advance of any other sort. Pkt. 5c; ½ oz. 75c

## SANVITALIA

**Procumbens Fl. Pl.**—6 in. Sanvitalia flowers are much like tiny Zinnias, being golden yellow with very dark purple centers, some of them single and others double. The plants grow only six inches tall, or rather they are prostrate and spread over the soil instead of growing upward. They start blooming in June and continue until frost. Pkt. 10c

## \*SAPONARIA

**Ocymoides Splendens**—6 in. A showy dwarf trailing plant, producing a sheet of vivid crimson flowers. June-August. Per pkt. 10c

## \*SAXIFRAGA (Megasea)

These will thrive in any kind of soil and in any position; grow about 1 ft. high and are admirable for the border of shrubbery, forming masses of handsome, broad deep green foliage with pretty rose-pink flowers which appear very early in the spring.

**Decipiens Grandiflora**—Masses of white flowers. 18 inch. Per pkt. 25c

**Rhei Superba**—Rose. 12 in. May-July. Seeds, pkt. 25c

## SCABIOSA

(Mourning Bride, Sweet Scabious, Pin-cushion Flower, etc.)

These are firm favorites with many of our customers. Seed can be sown any time in the spring, after danger of frost is past. They grow about 2½ feet high, and come into bloom early in July, and continue without interruption until hard frost. The beautiful flowers in exquisite shades are borne on long stems, and when cut keep in perfect condition for the best part of a week. They make effective borders or beds, and no garden is complete without Scabiosas, especially where flowers are wanted for cutting.

Lavender.	Fiery Scarlet
Black Purple.	Flesh.
Cherry Red.	Rose.
Yellow.	Snowball.
Mixed.	

Price, any of above, Pkt. 5c each

## \*SCABIOSA (Perennial)

**Caucasica Alba**—White. Pkt. 10c.

**Caucasica Lilac**—Pkt. 10c.

**Caucasica Perfecta**—Light blue flowers, long stem; fine for cutting. 18 in. June-October. Seeds, per pkt. 15c

**Caucasica New Hybrids**—A collection of new shades in this well-known perennial family. Per pkt. 25c

**\*Columbaria**—This is a novelty from South Africa. There is a decided place for this in your Perennial list. It is hardy, low growing, with a fine light green foliage. Some of the flowers measure two and a half inches across, with short compact petals, borne on long slender but strong stems. We offer this in two colors, lavender and pink. Per pkt. 25c

## SCHIZANTHUS

Butterfly or Fringe Flower

Very popular charming annuals, very decorative for garden beds and indispensable for pot plants for the house, where, by successive sowings, a continuous display may be enjoyed almost all the year around. The plants are compact, 1 to 1½ feet high, and their fluorescence is such as to completely obscure the foliage, making them veritable pyramids of dainty, airy, butterfly-like flowers. The seeds germinate very quickly and the plants come into bloom a few weeks from sowing.

**Hybridus Grandiflorus**—1 ft. (The Poor Man's Orchid.) Neat pyramidal bushes covered with a multitude of small butterfly-like flowers of the most brilliant and striking color designs. Pkt. 10c

**Wisetonensis**—1½ ft. A charming annual with graceful fern-like foliage and a profusion of flowers varying from almost white with yellow eye to a brilliant rose with bronzy brown center. A really beautiful subject for the flower border from seed raised in February, and for winter decoration in greenhouse from seed raised in May and June. Pkt. 10c

**Mixed**—All colors. Pkt. 5c; ¼ oz. 15c.

## \*SCUTELLARIA

**Celestina**—Blue. Pretty Siberian rock plant.

## \*SIDALCEA

Erect-growing, more or less branching plants, producing their showy flowers during June-July. They will succeed in any garden soil in a sunny position.

Rose Gem—2-3 ft. July-August. Beautiful rose-pink flowers. Very distinct. Per pkt. 15c

## \*SILENE (Catchfly)

Useful plants for front row of herbaceous border, bearing quantities of bright flowers.

Schafta—4 in. July-October. Bright rose; one of the best Autumn border plants. Per pkt. 15c

## SNAPDRAGON

(See Antirrhinum)

## \*SOLIDAGO (Golden Rod)

Virgo-aurea Alpestris—Yellow. 10 in. Spring. Per pkt. 15c

## STACHYS

Lanata—1-1½ ft. Grown for the effect of its dwarf, white woolly foliage; the flower spikes should be removed. Per pkt. 10c

## STATICE (Sea Lavender)

Our annual Statice is not only a beautiful flower in the border, but dries retaining its true colors, which are rare among everlasting, and have come to be indispensable in making winter bouquets.

Bondellii—Producing numerous heads of bright yellow flowers. Pkt. 10c.

Sinuata Blue—Pkt. 5c. Sinuata Lavender—Pkt. 5c. Sinuata Rose—Pkt. 5c. Sinuata Mixed—Pkt. 5c.

Sinuata White—Pkt. 5c. Yellow—Pkt. 5c.

Russian (Sawtorwii, or Rat Tail)—1 ft. Flowers bright rose color. Pkt. 10c.

## \*STATICE (Sea Lavender)

They are stemless, the leaves springing direct from the root stock and the flower stems are more or less twiggish, bearing their small flowers in much-branched panicles. The flowers are useful for drying for winter use. They belong to the Thrift order.

Caspia—The multitude of small flowers composed in spikes of a height of 2 to 3 feet, are of a tender lilac color. Per pkt. 15c.

Latifolia—2 ft. Dense branching plumes of deep blue flowers. Per pkt. 10c.

Perezii—Bright blue. Pkt. 25c.

## STEVIA

Serrata—2 ft. Free-blooming plants, bearing a multitude of fragrant pure white flowers; suitable for summer or winter blooming and cutting. Pkt. 10c

## STOKESIA (Cornflower Aster)

Cyanæa—This is not new, but is a rare and beautiful hardy perennial. The plant grows about 24 inches high, each bearing from 20 to 30 handsome lavender-blue cornflower-like blossoms; in bloom from July till frost. One of the choicest subjects for the hardy border and indispensable for cutting. Mixed, Pkt. 5c

## STOCKS

Gilliflower—The Stock is one of the most popular annuals, either for bedding or pot culture; for brilliancy and diversity of color, fragrance, profusion and duration of bloom it is unsurpassed. Start the seed in February and March, and as soon as the plants have their second pair of leaves, prick out into shallow boxes and in about four weeks the plants will be ready to pot; from which they should be transferred to the open ground in May or June.

## IMPROVED LARGE FLOWERING

### 10 WEEK STOCKS

Azure Blue.  
Brilliant Blue.  
Blood Red.  
Dark Blue.  
Mixed.

Flesh.  
Rose.  
White.  
Yellow.

Price, any of above, pkt. 5c each

## STOCKS

Giant Perfection "Cut and Come Again" 1½ ft.

Cut-and-Come-Again—Splendid perpetual-blooming class; sown in March or April they begin flowering in July, continuing till frost, and are especially valuable during September and October, when other flowers are scarce they throw out numerous side branches, all bearing very double, fragrant flowers.

Brilliant—Blood Red.

Creole—Canary Yellow.

Empress Augusta Victoria—Silvery Lilac Flesh.

Heatham Beauty—Rose Shaded Terra Cotta.

La France—Pale Blush.

May Queen—Pale Blue.

Princess Alice—White.

President Wilson—Violet Slate.

Queen of the Belgians—Pale Violet.

Rose—Rose Pink.

Sapphire—Violet.

Snowdrift Early—Pure White.

Finest Mixed.

Price, any of the above, 10c pkt., 3 for 25c

## STOCKS

### Mammoth Early Branching Nice

This variety is now recognized as the most valuable of all Stocks for cutting purposes and the most popular for general use.

If sown early, they come into flower as early as Dwarf Ten Week varieties; the flowers are larger, and the branching habit renders them invaluable for florists.

ABUNDANCE—Carmine Rose.

ALMOND BLOSSOM—White Tinted Carmine.

APPLE BLOSSOM—White Tinted Pink.

AURORA—Chamois.

BEAUTY OF NICE—Delicate Flesh.

BELLE OF NAPLES—Old Rose.

BRIGHT VIOLET—Fine Rich Violet.

COTE D'AZURE—Light Blue.

CRIMSON KING—Brilliant Crimson.

GOLDEN SHEAF (new)—Chamois, Shaded Rose.

LILAC (new).

MADAME RIVOIRE—Earliest White.

MONT BLANC—Pale White.

PARMA VIOLET—Pale Violet.

QUEEN ALEXANDRA—Rosy Lilac.

ROSE QUEEN—Brilliant Deep Rose.

SALMON KING—Salmon Rose.

SOUVENIR DE MONACO—Crimson.

SUMMER NIGHT—Dark Blue.

WHITE OF NICE.

YELLOW OF NICE.

All Colors Mixed. Pkt. 10c.

Price, any of the above, 10c pkt., 3 for 25c

## TAGETES

This is what one of our customers says: "The one annual I always enthrone over is the Mexican Marigold, but the seedsmen so often hide it in their catalogs, it seems to me, that we fail to see it. They call it Tagetes signata pumila. It has a starlike, yellow flower and very dainty, finely cut leaves."

Signata Pumila—10 in. A miniature Marigold forming compact little plants and completely covered with flowers, which are bright yellow with brown stripe down the center of each petal. Very striking for edgings. Sow the seed in spring in boxes and transplant.

Pkt. 10c

## \*BUTZER'S PERENNIAL FLOWER GARDEN

We have made up a mixture of the most showy and easily grown perennials. As a great many of our customers do not care for the names of the different varieties but want a lot of flowers the whole season, with this in mind we have made up this mixture. Under ordinary gardening methods, the planter may expect quite a surprise at the great display of beautiful flowers. Try a package on our say-so. Large Package, 15c, 2 for 25c; oz., 50c, postpaid.

You Can

Select 3-10c packages for.....25c  
Select 2-15c packages for.....25c  
Select 8-10c packages for.....50c  
Select 5-15c packages for.....50c

# SWEET PEAS GIANT SPENCER

Too many varieties of Sweet Peas. It has always been a puzzling question to small growers, who, desiring to grow only a limited number of sorts, with as great an assortment as possible, are sometimes rather disappointed because some of the varieties are so nearly alike.

It will be realized that exhibitors and other keen growers are influenced by delicate shadings of color, by difference in form, by the way the blooms are placed on the stem, and so forth. We, therefore, keep a sufficiently wide range of varieties to suit these tastes, although, to the casual eye many of them are very much alike. We have made up our list of varieties, which, we believe, will answer all purposes.

**PRICE:** Per Pkt. 10c.

8 Pkts. your selection for 50c  
Per 1 oz. 25c, Postpaid

AMERICA—Red flake, white ground.

AUSTIN FREDERICK IMPROVED—Giant lavender.

BARBARA—Salmon.

BLUE BIRD—Real Blue.

BRILLIANT ROSE—Bright tyrian rose.

CHARITY—Scarlet crimson.

COLORADO—Bright orange.

CRIMSON KING—Rich deep crimson.

DAFFODIL—Deep cream.

DAISYBUD—Deep apple blossom.

ELEGANCE—Giant blush pink.

ELFRIDA PEARSON—Giant shell pink.

FIERY CROSS—Bright red orange cerise.

FLUFFY RUFFLES—Rich rose pink duplex.

GIANT WHITE.

GLORIOSA—Orange scarlet.

GOLD CREST—Orange tinted salmon.

HAWLMARK CERISE.

HAWLMARK LAVENDER—Clear light lavender.

HAWLMARK PINK—Rose pink shaded salmon.

HELEN LEWIS—Standard orange, wings salmon.

HERCULES—Giant pure pink.

HUNTSMAN—Bright scarlet.

KING WHITE—Large pure white.

MARGARET ATLEE—Rosy salmon buff.

MARY PICKFORD—Dainty cream pink suffused salmon.

MISS CALIFORNIA—Orange salmon, cream pink.

MRS. TOM JONES—Best azure blue.

MODEL—Large white.

OLYMPIA—Rich purple.

PINKIE—Large rose pink.

R. F. FELTON—Lavender.

ROBERT SYDENHAM—Bright orange salmon.

ROYAL PURPLE—Rich purple.

ROYAL SCOT—Glowing scarlet cerise.

SENATOR—Chocolate flake.

SUNSET—Bright rose, amber ground.

TANGERINE IMPROVED—Orange.

THE PRESIDENT—Dazzling orange scarlet.

VALENTINE—Shell pink.

WARRIOR—Giant maroon.

WHAT JOY—Cream.

WONDERFUL—Salmon red.

YOUTH—Large white, pink picotee.

## SUPERB SPENCER or ORCHID-FLOWERED SWEET PEA MIXTURE

This popular mixture is planted each year by thousands of our customers who like to have a showy row of Sweet Peas. This mixture contains the very best of the named Sweet Peas as well as some of the unnamed. We believe that it is the very best mixture that can be made, and we know that it will surely be a delight to you and also to your friends. All of the leading colors are represented. Plant them this fall.  
Price per pkt. 5c; oz. 15c; 2-oz. 25c; 4-oz. 50c, Postpaid

## BUTZER'S "ROSE CITY" SWEET PEA COLLECTION

25c Postpaid

This Collection Contains One Package  
Each of the Following—All  
Giant Spencers

### CREAM PINK

FLUFFY RUFFLES—A new type with large double and ruffled blooms of a most beautiful light cream pink color.

### CREAM

DAFFODIL—A vigorous variety with exquisitely frilled and waved rich cream blooms.

### SCARLET

HUNTSMAN—A bright shade of scarlet; really a wonderful bit of color. Perfectly sun-proof and of largest size. An outstanding English novelty.

### ORANGE

COLORADO—A shade of orange that will please on account of its richness and brilliance of large well placed blooms.

### PURPLE

OLYMPIA—A new variety of large blooms of a rich bright purple color. A strong grower.

### LAVENDER

AUSTIN FREDERICK IMPROVED—The color is a pleasing shade of bright lavender.

25 cents for above Collection,  
Postpaid

## EARLY FLOWERING SPENCER SWEET PEAS

Six weeks earlier than the Spencers, these new early-flowering varieties begin to bloom 106 days from planting in the open ground and flower through a long season—about four months.

Price per pkt. 15c; oz. 50c

Aviator—Dazzling crimson-scarlet.

Columbia—Best pink and white.

Glitters—Orange-scarlet.

Heather Bell—Lavender.

Miss Louise Gude—Brilliant pink.

Snowstorm—White.

Zvalanek's Rose—Rose-pink.

## EARLY FLOWERING SPENCERS MIXED

A choice mixture of the foregoing named Early Flowering Spencer varieties, and others.

Pkt. 10c; oz. 50c; ¼-lb. \$1.75

## CUPID, DWARF OR BEDDING SWEET PEAS

These form a line of emerald-green foliage a little over a foot wide and 6 inches high, and from June until late summer are literally a sheet of bloom; the mixture contains all the colors.

Little Nell—Pink and white. Pkt. 10c.

Midshipmite—White edged violet blue. Pkt. 10c.

Rosebud—Apricot pink. Pkt. 10c.

Mixed—Above three varieties. Pkt. 10c.

## \*SWEET WILLIAMS

*Dianthus Barbatus*—A well-known attractive, free-flowering, hardy perennial, producing a splendid effect in beds and borders, with rich and varied flowers. The demand for separate colors has induced us to offer this season several of the best and most distinct flowers.

Dark Crimson. Pkt. 5c.

Pink Beauty. Pkt. 5c.

Scarlet Beauty. Pkt. 5c.

Double White. Pkt. 5c.

Double Mixed. Pkt. 5c.

Single Mixed. Pkt. 5c.

## THALICTRUM (Meadow Rue)

The foliage is very finely divided like that of the Maiden-hair fern or Columbine and is useful in making bouquets. The flowers are borne in feathery clusters. Easy of cultivation. Belong to the Buttercup order.

*Dipterocarpum*—4 to 5 ft. Aug.-Sept. Very graceful plumes of rosy purple flowers with conspicuous yellow anthers. 25c per pkt.

## THUNBERGIA

*Black Eyed Susan*—Beautiful rapid-growing climbers, fine for vases, rustic work or greenhouse culture. Half-hardy annuals; five feet. Fine mixed. Per pkt. 5c.

## \*TRITOMA

*Hybrida Mirabilis*—An annual Red-Hot Poker Plant. Seed should be sown in temperate heat from January to March, pricked off and treated like half hardy annuals. The seedlings may be planted in open ground from end of April to May and they will bloom freely from August to late in the autumn. Pkt. 15c.

## \*TUNICA

*Saxifraga*—A pretty tufted plant with light pink flowers, produced all summer. Useful either for the rockery or the border. Per pkt. 15c.

## \*VERBASCUM

*Hybridum, Miss Willmott*—Hardy biennial. The large flowers are produced in stately spikes, rising to a height of 5 to 6 feet and continue from July to frost. A lovely white variety. Seeds, per pkt. 15c.

*Phoeniceum Hybrids*—2 ft. Bears white, purple, rose or red flowers in erect spikes in summer. A native of Europe and Asia. Seeds, 25c per pkt.

## VERBENAS

Verbenas are free flowering hardy annuals of low spreading growth. Single plants in rich soil will cover a space three or four feet in diameter and furnish a profusion of flowers. If the flowers are kept cut, the plants will bloom much more freely. Plants grown from seed are not only cheaper than those grown from cuttings, but are more vigorous.

*Mammoth Strain*—This is without doubt the finest strain in existence. White, scarlet, pink, purple, blue or finest mixed. Pkt. 10c.

## \*VERONICA (Speedwell)

Among the prettiest of herbaceous plants, bearing in most cases blue flowers, which are much needed.

*Prostrata Mixed*—Blue and white. Trailer. June-July. Per pkt. 25c

## VIOLA CORNUTA

"Tufted Pansies"—The flowers are not so large as regular pansies but bloom so freely that for bedding effect they are unsurpassed. The colors are distinct and they also bloom for a long time.

Blue Perfection—Deep bright blue. Pkt. 15c.

*Jersey Gem*—Forms a large, compact plant, producing a continuous profusion of bloom for a very long period. The flowers are a very pleasing shade of deep violet-blue, with an occasional very slight variation in tint, and may be relied upon to come about 70% true from seed. A great feature of this fine variety is its wonderful power of resisting drought, the plants continuing to throw up flowers long after other varieties are withered up. Pkt. 25c

Purple—Pkt. 15c; Mixed—Pkt. 10c.

## VIOLET (*Viola Odorata*) (Sweet Violet)

No garden is complete without a nice bed of violets. They bloom ahead of other flowers, and their fragrance is delightful. They will thrive in shady places and therefore can be planted where other plants will not do well. A violet bed around the foot of a big shade tree is very attractive. Provide good rich soil and after you once get a bed established you can get any number of plants by dividing the roots. Hardy perennial.

Pkt. 10c

## VIOLET ODORATA

*Bosniaca*—Free-blooming, small deep purple flowers. Pkt. 25c

*Floraiensi*—This variety forms large compact plants producing a continuous profusion of bloom for a long period, considerably longer than other Violas. The flowers are a very pleasing shade of pale lavender. The plants continue to throw up flowers long after other varieties are withered up. Splendid rock garden plant. Pkt. 35c

*Gracilis*—Dark Violet Blue—Very free blooming new variety. Flowers same size and color as the Sweet Violet. Can be used in rock gardens in place of *Viola Jersey Gem* which it resembles. Pkt. 35c

*Gracilis Lord Nelson*—Glowing violet-purple. 6 in. April-August. Pkt. 35c

*Johnny-Jump-Up or Viola Tricolor*—The probable ancestor of the pansy, whose native habitat is the cooler parts of Europe, has long been known to us as the ladies' delight, or none-so-pretty of our grandmothers' gardens and is still a precious possession, even though we have to weed out the plants where they take possession and crowd out more delicate kinds. They make a braver show than their aristocratic relative, the viola, which does not always survive our Winter changes, and if allowed to seed will carpet the rose or iris bed with a sheet of tiny flowers facing the sun in May. They are persistent bloomers and one may even find blossoms on some plant in mid-winter, although the stems are then hardly long enough to pick. Purple, blue and yellow are the three colors that give them their name and the combinations are variable; sometimes there will be a yellow blossom and below it on the same stalk one of yellow and blue. Pkt. 25c

## WALL FLOWER

Very highly prized, old-fashioned plants grown largely for their fragrance; half-hardy perennial varieties; 1½ feet.

## SINGLE FINEST MIXED

Single Finest Mixed—Pkt. 5c.

## DOUBLE TALL BRANCHING WALLFLOWER

Double Tall Branching. Finest Mixed—Fragrant, 3 feet. Per pkt. 10c

## WILD CUCUMBER

The quickest growing climber on our list, attaining a length of 30 feet in one season. It is thickly dotted with pretty, white, fragrant flowers, followed by an abundance of ornamental and prickly seed pods. It will quickly cover an old tree or an unsightly building. Pkt. 5c; oz. 20c

## "WILD" FLOWER GARDEN

To those who cannot bestow the necessary care required in a neatly laid out flower garden the "Wild" Flower Garden presents a substitute which for its usual varied effect, for cheapness and small amount of labor necessary for its construction, has no rival.

"Wild Flower Garden Seeds" are a mixture of over 100 varieties of hardy flower seeds. Per pkt. 5c; oz. 20c

## XERANTHEMUM, MIXED

Plants 2 feet high, producing small double flowers, which are easily dried for winter bouquets. Grows readily from seed sown early in the Spring. The flowers are very graceful. Free-flowering. Pkt. 10c.

HAVE YOU ORDERED YOUR SWEET PEA COLLECTION? See Page 53.

# DAHLIA FLOWERED ZINNIAS

This wonderful flower creates a sensation wherever it is grown and it has probably gained popularity more quickly than any other improved garden flower offered in recent years. The large size, fullness of petals, extraordinary color range, and good keeping qualities have all contributed to its popularity. The flowers resemble in appearance the Decorative Dahlia and is called the Dahlia Flowered Zinnia for this reason. When in full bloom they often measure five to six inches in diameter.

**Canary Bird**—A delicate shade of primrose—very large and holds its color well until out of bloom. Per pkt. 10c.

**Crimson Monarch**—By far the largest and best of the red shades. Flowers often 8 inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit. Per pkt. 10c.

**Dream**—A fine deep lavender, turning to purple (Mallow Purple), a new, desirable shade in Zinnias. Per pkt. 10c.

**Exquisite**—By far the most pleasing of our collection. Truly DAHLIA flowered as regards form and size. Color light rose with center a deep rose. (Tyrian Rose.) Per pkt. 10c.

**Golden Dawn (New)**—A beautiful golden yellow of immense size and good form. Very attractive. Pkt. 10c.

**Golden State**—A very rich orange yellow (Cadmium). Yellow in the bud, turning to an attractive orange when in full bloom. Per pkt. 10c.

**Illumination**—Similar to Exquisite, but a striking self color of deep rose. (Tyrian Rose.) Per pkt. 15c

**Lemon Beauty**—This is next to Crimson Monarch in size and form. It may be described as a golden yellow on brown. Decidedly a pastel shade, and should be in every collection. Pkt. 10c.

**Meteor**—A rich, glowing deep red (Spinel Red), and the darkest of all the red shades. Fine form, with good depth of petal. Very large and more floriferous than other reds. Per pkt. 10c.

**Oriole**—We consider this the most beautiful of its class. It is an immense orange and gold bicolor, changing slightly as it ages, but at all times worthy of the beautiful bird for which it is named. Pkt. 10c.

**Old Rose**—This is adequately described by its name, as it is of the real Old Rose Shade; it is large, and for charm and beauty we consider it ranks next to Exquisite. Per pkt. 10c.

**Polar Bear**—A very large pure white, the best white yet seen in Zinnias. True Dahlia form. Per pkt. 10c.

**Purple Prince**—A fine, deep purple (Rhodanthe Purple) large and well-formed. Pkt. 10c.

**Scarlet Flame**—A large, beautiful, bright scarlet, with a delightful blending of orange throughout the petal. This is not a bicolor. Per pkt. 10c.

**Youth (New)**—A beautiful soft rose self; valuable for forcing and a good shipper, having better lasting qualities than any other variety we grow. Pkt. 10c.

**Butzer's Special Mixture**—A well blended mixture, containing all the above novelties. Per pkt. 10c; 3 for 25c.

## ZINNIAS—GIANTS OF CALIFORNIA

This type was introduced in 1926, with the conviction that it was a type that would become a favorite. This is a mutation from the Dahlia Flowered type and the general approval in the past four years has encouraged us to go further into the development of this for florists' and general use. The great advantage of this type is that the very large flowers are of enormous size and flat, getting away from the conical type of the Giants and eliminating the stiffness that has been so objectionable in Zinnias in the past. The flowers from the time they open are attractive, making them a good cut flower from the early bud until they are in full bloom. They are twice the size of the ordinary Giants.

**Cerise Queen**—Beautiful cerise rose.

**Enchantress**—Color same as Exquisite in Dahlia Flowered type.

**Lemon Queen**—Lemon orange.

**Miss Wilmott**—Soft pink.

**Orange King**—Cadmium or burnt orange.

Price, any of the above, 10 cents per package; 3 packages for 25 cents; 8 for 50c;

## GIANT PICOTEE ZINNIAS

A remarkable new and distinct class with beautiful double flowers in orange, flesh, lemon, pink and cerise, each petal being distinctly tipped with various shades of dark, resembling the Picotee Carnations.

**Golden Pheasant**—A variety of the above, having flowers of a deep orange with maroon tips. Pkt. 10c.

**Giant Picotee Mixed**—Pkt. 10c.

## POMPON OR LILIPUT DOUBLE ZINNIAS

12 to 15 in.

The plants form handsome little bushes and fairly bristle with tiny, short-stemmed, very double flowers hardly exceeding a daisy flower in size. They are very pretty plants; bloom all summer until late in the fall.

<b>Canary Gem.</b>	<b>Purple Gem.</b>
<b>Delicate Flesh Gem.</b>	<b>Salmon Rose Gem.</b>
<b>Golden Gem.</b>	<b>Scarlet Gem.</b>
<b>Orange Gem.</b>	<b>White Gem.</b>

Liliput Mixed, all colors.

Each of the above, pkt. 10c.

## DWARF DOUBLE ZINNIAS—Large Flowering

### THE BEST BEDDING VARIETY

This we consider the best Zinnia for bedding, forming bushy compact plants not over 2 feet high, bearing large perfect flowers.

**Bright Scarlet**, very rich.

**Canary**, clear yellow.

**Fire Ball**, red.

Price, any of the above, 10 cents per pkt.; 5 sorts 35 cents;  $\frac{1}{4}$  oz. 25 cents.

## "ROSE CITY" MIXTURE ZINNIAS

This is a mixture of all the varieties that we list and will give you a wonderful display of flowers.  
Pkt. 10c;  $\frac{1}{4}$  oz. 35c; 1 oz. \$1.00.

**Salmon Rose**, a pleasing shade.

**Snowball**, pure white.

**Mixed**, all colors.

$\frac{1}{4}$  oz. 25 cents.

# GLADIOLUS

**Albania (Kemp)**—Unquestionably one of the finest whites in cultivation.  
Each 5c; doz. 45c

**Apricot Glow (Palmer)**—Fine soft apricot, many wide open blooms.  
Each 5c; doz. 50c

**Belinde (Pfitzer)**—Very beautiful large cream yellow, also very early.  
Each 8c; doz. 80c

**Bengal Tiger (Pratt)**—A fine red with dark markings, originated by Dr. Pratt of Portland. A truly home product.  
Each 5c; doz. 50c

**Betty Nuthall (Salbach)**—Very tall coral with orange throat. Magnificent flower and a good propagator.  
Each 20c; doz. \$2.00

**Blue Jay (Groff)**—Lobelia blue spotted white. Very odd and beautiful.  
Each 8c; doz. 80c

**Byron L. Smith (Kunderd)**—One of the very best; most refined lavender-pink on white ground; extra fine as a cut flower. Color equal to a very choice Cattleya Orchid.  
Each 5c; doz. 50c; 100 \$3.75

**Carmen Sylva (Prestgard)**—Almost pure white, medium tall, ideal cut flower.  
Each 5c; doz. 50c

**Carmilita (Diener)**—Smoky pink, large flower. Very lovely.  
Each 6c; doz. 60c

**Catherine Coleman (Coleman)**—Geranium pink, extra tall.  
Each 10c; doz. \$1.00

**Copper Bronze (Kunderd)**—Prim, a very striking copper bronze color.  
Each 6c; doz. 60c

**Crimson Glow (Betscher)**—Rich crimson; large open flower and good spike.  
Each 5c; doz. 50c; 100 \$3.75

**Dr. F. E. Bennett (Diener)**—Deep peach red. One of the most popular Glads in cultivation.  
Each 5c; doz. 50c; 100 \$3.75

**Dr. Moody (Kinyon)**—Fine early lavender, many open.  
Each 15c; doz. \$1.50

**Duchess of York (Dames)**—Very deep purplish blue with many flowers open at a time.  
Each 5c; doz. 50c

**Elf (Diener)**—Lemon yellow buds, white when open with yellow lip.  
Each 5c; doz. 50c

**Elizabeth Tabor (Hinkle)**—The earliest of all Glads. Beautiful shade of pink with carmine blotch.  
Each 5c; doz. 50c; 100 \$3.75

**Evelyn Kirtland (Austin)**—A wonderfully graceful flower of bright coral pink; a great favorite.  
Each 5c; doz. 50c; 100 \$3.75

**Fern Kyle (Kunderd)**—Fine large pale cream, heavily ruffled.  
Each 5c; doz. 50c

**Geraldine Farrar (Diener)**—Pale lavender violet, with silvery sheen.  
Each 10c; doz. \$1.00

**Gertrude Errey (Errey)**—Shell pink, blending to almost white in the throat, very lovely.  
Each 5c; doz. 50c

**Giant Nymph (Coleman)**—Tall light pink, extra fine.  
Each 5c; doz. 50c; 100 \$3.75

**Gladis Plath (Diener)**—Mallow purple, deeper throat, extra good.  
Each 5c; doz. 50c

**Glendale (Davis)**—Tall, graceful purple, a prize winner.  
Each 5c; doz. 50c; 100 \$3.75

**Gloriana (Betscher)**—Rich salmon pink with creamy throat, many flowers open, rapid propagator, extra fine. Prim.  
Each 6c; doz. 60c

**Gold (Decorah)**—Clear light yellow, good.  
Each 5c; doz. 50c

**Gold Eagle (Austin)**—Deep rich yellow, very early and a good forcing variety.  
Each 5c; doz. 50c

**Golden Dream (Groff)**—One of the best, deep clear yellow, very tall, with five or six flowers open at a time.  
Each 10c; doz. \$1.00

**Golden Measure (Kelway)**—Pure golden yellow, one of the finest of this color.  
Each 5c; doz. 50c; 100 \$3.75

**Heavenly Blue (Pfitzer)**—Analine blue, strong grower, one of the best light blues. Each 25c; doz. \$2.50

**H. C. Goehl (Fischer)**—Clear white, maroon blotch, striking.  
Each 8c; doz. 80c

**Iwa (Betscher)**—Pink with dark throat, one of the best blotched varieties; vigor without coarseness.  
Each 5c; doz. 50c

**Jack London (Diener)**—Salmon with red lines, fine cut flower.  
Each 5c; doz. 50c; 100 \$3.75

**Jacoba Von Beijeren (Holland)**—Violet self color, splendid and tall.  
Each 5c; doz. 50c

**Jean Tenny (Australian)**—Good spike, silvery pink, extra fine.  
Each 15c; doz. \$1.50

**Joerg's White (Joerg)**—Very large, a really worthwhile white.  
Each 15c; doz. \$1.50

**John T. Pirie (Kunderd)**—Mahogany brown, darker throat, many open at a time. A good one.  
Each 10c; doz. \$1.00

**Longfellow (Decorah)**—Excellent pink, perfect spike, a dainty fine thing. Each 6c; doz. 60c; 100 \$4.00

**Los Angeles (Houdyshel)**—Shrimp pink, the cut and come again Glad.  
Each 5c; doz. 50c

**Marie Kunderd (Kunderd)**—Early ruffled white.  
Each 8c; doz. 80c

**Marmora (Errey)**—A truly remarkable Glad. Large flower of lavender, overlaid silver grey with petunia blotch. Many open.  
Each 25c; doz. \$2.50

**Mme. Mount Sully (Lemoine)**—Ivory white with carmine blotch, large flower. Many open.  
Each 10c; doz. \$1.00

**Mary Pickford (Kunderd)**—A wonderful flower and spike of delicate creamy white flowers, with sulphur yellow blotch in throat.  
Each 5c; doz. 50c

**Minuet (Coleman)**—Clear lavender. One of the best in this color.  
Each 15c; doz. \$1.50

**Mrs. Dr. Norton (Kunderd)**—Finest cream and pink.  
Each 5c; doz. 50c

**Mrs. F. C. Peters (Fischer)**—Extra fine tall rose lilac with blossoms that are blotched with crimson. Large.  
Each 5c; doz. 50c; 100 \$3.75

**Mrs. Leon Douglas (Diener)**—Begonia rose, striped with scarlet, magnificent spikes of mammoth flowers.  
Each 5c; doz. 50c; 100 \$3.75

**Mrs. P. W. Sisson (Coleman)**—Clear cameo pink, a prize winner, many open.  
Each 10c; doz. \$1.00

**Mrs. Von Konynenburg (Holland)**—Good light blue, excellent spike.  
Each 20c; doz. \$2.00

**Mr. W. H. Phipps (Diener)**—Iridescent pink to rose salmon, many flowers open.  
Each 6c; doz. 60c; 100 \$4.25

## GLADIOLUS—Continued

**Mrs. John R. Walsh** (Diener)—Flesh pink, darker throat, similar in appearance to a Martha Washington geranium.  
Each 5c; doz. 50c

**Nancy Hanks** (Salbach)—Peach red to orange pink, good grower and propagator and stands heat well.  
Each 5c; doz. 50c

**Orange Queen (European)**—A very beautiful brilliant orange Prim.  
Each 5c; doz. 50c

**Orchid Lady (Spencer)**—A deep early lavender, large flowers.  
Each 15c; doz. \$1.50

**Our Selection (Australian)**—Deep salmon tinged purple-lavender, blotched throat. Many open.  
Each 50c; doz. \$5.00

**Pfitzer's Triumph (Pfitzer)**—Very large salmon-orange. Attracts attention wherever shown.  
Each 15c; doz. \$1.50

**Pink Cloud (Kunderd)**—Soft rose pink shading to deeper pink in throat, large and ruffled, many open.  
Each 10c; doz. \$1.00

**Primrose Princess (Salbach)**—Extra large, good, primrose yellow.  
Each 10c; doz. \$1.00

**Purple Glory (Kunderd)**—Gigantic blooms of a deep maroon red, well spaced on tall spikes. A wonderful exhibition variety.  
Each 6c; doz. 60c

**Red Glory (Piper)**—Very large velvety red, a sport of Purple Glory and a good one. Each 20c; doz. \$2.00

**Richard Diener (Diener)**—Geranium pink, one of the very best.  
Each 5c; doz. 50c

**Rose Ash (Diener)**—Soft light rose with grey blue and having soft cream blotches on two lower petals, stalks four to five feet tall.  
Each 5c; doz. 50c

**Sans Pareil (Vilmorin)**—A French variety of great merit, deep apricot pink, with white throat, well placed on tall spike, a grand variety.  
Each 20c; doz. \$2.00

**Scarlano (Kunderd)**—Ruffled, a brilliant rich orange red.  
Each 5c; doz. 50c

**Sunnymede (Fischer)**—Light orange with red throat markings. The best in this color.  
Each 5c; doz. 50c

**Superba (Coleman)**—Carmine scarlet, large flowered and early.  
Each 10c; doz. \$1.00

**Sweet Lavender (Coleman)**—Very early lavender, darker throat, fine.  
Each 5c; doz. 50c

**The Orchid (Sprague)**—Lavender pink, lacinated and ruffled.  
Each 5c; doz. 50c

**Veilchenblau (European)**—Violet blue, tall spike, extra good.  
Each 30c; doz. \$3.00

**White Butterfly (Kunderd)**—A fine pure white Prim.  
Each 5c; doz. 50c

## GLADIOLUS

This class of Summer-flowering bulbs is doubly valuable for the brave field show of bloom, and for its generous supply of cut flowers. Gladiolus flowers last longer when cut than most any other flowers, and develop in water to a greater perfection than if left on the plant. Any rich, light garden soil will grow Gladioli if properly worked in preparation and exposed to the benefit of full sunlight. Set bulbs 2 to 4 inches deep and 2 inches apart in the drills, single rows 12 inches and double rows 18 inches apart. Beds do well planted 4 to 6 inches apart, each way.

## BUTZER'S "ROSE CITY"

Mixture of  
Large Flowered **Gladiolus**

All Extra Selected Large Bulbs  
No Second Size

We have assembled an assortment of distinct choice named varieties into a carefully distributed mixture. This collection is entirely our own, in which we take a reasonable pride.

By MAIL, 50c per doz., \$3.50 per 100.

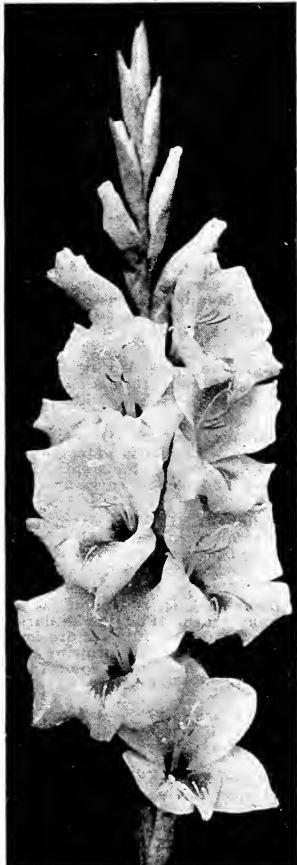
By EXPRESS, \$3.00 per 100, \$25.00 per 1000.

250 at the 1000 rate.

## BUTZER'S Dollar Assortment *of Gladiolus*

**60 ASSORTED BULBS FOR \$1**

These are Medium or Flowering size bulbs of the finest named varieties only. Each assortment put up separately by hand containing from 1 to 5 bulbs each of 20 different varieties, 60 bulbs in all but not labeled. Not a cheap mixture, but a collection of the best, priced so that you can afford to plant them liberally, and still have something really choice. All will bloom splendidly for anyone, and will make extra large bulbs for next year. We guarantee them to please you. If not, return them next fall and your money will be cheerfully refunded. We send cultural directions with each order.



# BUTZER'S DAHLIAS—Selected Varieties

## ORDER EARLY

No plant in the floral kingdom has made such marked improvement in size, form and coloring in the past few years as has the Dahlia. Words are inadequate to describe them. There is a touch of grandeur and magnificence about them that baffles description. The blossoms are wonderful in form and size, and embrace a glorious range of coloring, with almost an endless number of combinations impossible to describe. It has a blooming season of about four months, commencing in mid-summer and lasting until frost, and for landscape and garden decoration it stands supreme.

Our offerings of Dahlias are only those varieties which we have found to be entirely satisfactory to planters in general. There are hundreds of worthless varieties with which the amateur is not familiar, and would consequently have more difficulty in choosing properly if they were included among the listings. You may have no hesitancy in selecting any variety from this list.

For those who do not know the different varieties of dahlias or feel that they do not know which ones to select, we have prepared several fine collections which are offered on another page at greatly reduced prices, in order to get you acquainted with this beautiful flower.

Dahlia bulbs are ready for shipment about April 15th. You may include them in your order for seeds and they will be sent when ready.

In this locality we recommend planting about May 1st and bulbs will be shipped the latter part of April. Upon arrival bulbs should be planted at once if ground has been prepared for them, if not they should be left in box covered with packing material as received and packing should be moistened so as to keep them from drying out. Keep them well covered and away from sunlight and air, as it is very harmful to the bulbs to leave them laying around, exposed, before planting them.

**DAHLIA CULTURE**—Dahlias will grow to perfection in any good garden soil and should be planted where they will get plenty of sun although they will do very well if planted in a location that is partially shaded.

Holes should be dug about three feet apart each way and the bulbs planted 5 to 6 inches deep, laying them flat in the bottom of the hole. Under no circumstances should they be stood on end. Cover bulb with not more than 2 inches of finely pulverized soil at first, and as plant makes growth hole should be gradually filled in.

Plants should be watered freely when necessary and ground should be kept well cultivated until plants begin to bloom; when deep tillage should cease and the surface only should be lightly stirred from then on. Stakes should be driven into the ground and plants kept well tied to them so as to keep them from being broken down by wind and heavy rains.

## DAHLIAS—THE DIFFERENT FORMS

**Cactus** (*C. signifies Cactus*)—These are characterized by the long, narrow, pointed petals, twisting and in-curving; others straight and needle-like.

**Hybrid Cactus** (*H. C. signifies Hybrid Cactus*)—They are between the cactus and the decorative. They have broader and more massive petals than the cactus, but not as broad as the decorative.

**Decorative** (*D. signifies Decorative*)—These have large double flowers, full to the center, with broad, flat, somewhat loosely arranged petals, with broad points or rounded tips.

**Peony** (*P. signifies Peony*)—These are so named from their resemblance to semi-double peonies.

**Alice Whittier** (*H. C.*)—One of the finest and largest of the newer prize-winners of a beautiful clear sulphur yellow. Massive blooms of good substance and perfect form carried on long stiff stems. One of the best light yellows. Each 50c.

**Al Koran** (*D.*)—A very large free flowering golden yellow, of good formation, produced on good stems well above the foliage. Each 35c.

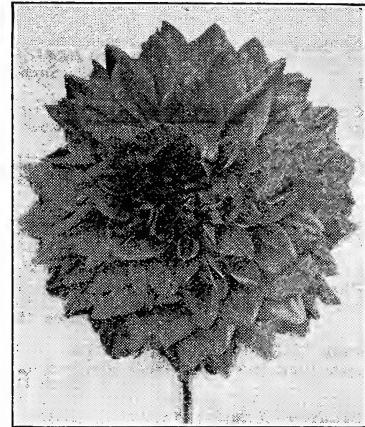
**Barbara Redfern** (*D.*)—A mammoth flower of gold overlaid with blends of copper and old rose. Blooms are held erect on fine stems. Plant is a clean healthy grower and blooms early and continuously. Each 75c.

**Ballet Girl** (*C.*)—An extra large deep flower; a mass of narrow incurved petals of pure orange, white with orange base and other variations of these colors on the same bush. Free flowering. Very attractive. Each 35c.

**Black Jack** (*D.*)—One of the deepest maroon colored dahlias grown. Color is so dark it can almost be described as black. Flowers are immense and are carried well above the tall growing plants on long, strong stems. The best in its color and a distinct addition to any garden. Each 50c.

**Bob Pluse** (*H. C.*)—A large wine-maroon, each petal attractively tipped with pure white. Fine stems and blooms very freely. Very showy in the garden. Each 35c

**City of Trenton** (*D.*)—Blooms are very large and are held erect on long stiff stems well above the foliage. The front of the petals are a rich glowing tangerine orange while the reverse is a crushed strawberry red. The gracefully curled petals give a two-toned effect, creating an impression of whorls of flame radiating from a full glowing center. A superb flower of great beauty and highly recommended. Each \$1.50



**Charles Stratton** (*D.*)—A grand exhibition flower that has been awarded many prizes for its large size and artistic coloring, and one of the most talked of Eastern varieties. In color a pale gold, shaded and tipped with old rose. A tall grower and prolific bloomer on good stems. One of the best new varieties. Each 50c.

**Elinor Vanderveer** (*D.*)—An incomparable dahlia of exquisite beauty and great size. The large blossoms of glowing, satiny rose-pink are of great depth and substance and are held far above a strong sturdy plant on exceptionally long, stiff stems. There is no surplus leafage and with ordinary disbudding every flower is perfect. Extra fine. Each 25c.

**Glory of Monmouth** (*D.*)—A large beautiful flower of eosine pink, shading to strawberry pink at center of petals. Base of petals a light orange; a new combination in dahlias. Plant is of medium height, wide spreading and sturdy, holding the exquisite blooms well above the foliage on strong stems. Very free flowering and an extra fine keeper. Should not be pinched back. Each 75c.

**Golden Emblem** (*D.*)—A clear, golden yellow, without shading or traces of any other color. The huge flowers, 9 to 10 inches across, are of the most artistic and refined form imaginable with their high centers and long, wavy, recurring petals. Blooms held erect on long wiry stems, far above foliage. The best clear yellow by far. Each 75c.

**Ida Perkins** (*D.*)—This wonderful white won the Garden and Home Builder Achievement Medal at Boston and we consider it to be the best white introduced to date. We grow several good whites but Ida has them all beat. Upright grower; perfect stems; flowers of largest size and heavy texture; and a remarkable keeper that does not sunburn. A grand exhibition flower and as clean a grower as you will find in any garden. Extra fine. Each 75c.

## DAHLIAS—Continued

**Inkyo** (H.C.)—A nearly black hybrid cactus that produces an abundance of very dark red incurved blooms. Easy to have stems three feet long on this dahlia. To walk among them is like losing ourselves in a black forest. Everyone who has grown it is enthusiastic in its praise. Each 50c.

**Jane Cow** (D.)—This massive decorative was the sensation of the New York Show of the American Dahlia Society, 1927. It is a large deep flower with as fine a coloring as anything in the Dahlia world. A glistening bronzy buff and old gold blending to a deeper shade toward center of flower, reverse of petals a pale flesh color, giving the flower as a whole, a warm glow. A stem of unusual strength holds the giant blooms erect over a plant of ideal growth. This variety received many prizes during the past season at the different shows. Was awarded two blue ribbons at the 1928 show of the Portland Dahlia Society. One for largest flower and one for the best flower in the show.

Each \$1.00

**Jersey's Beauty** (D.)—Not only the finest, true pink, decorative variety yet introduced, but we are tempted to say the best all-round dahlia for any purpose yet introduced. It has been one of the outstanding features of the shows for the past four seasons, where it has been awarded many medals, certificates and prizes. The beautiful, large, pink flowers are of perfect form, supported on long, stiff, straight stems. It is early and free-flowering, continuing perfect to the end of the season. As a cut flower it is one of the best keepers and is equally valuable for garden decoration. Each 25c.

**Margaret Woodrow Wilson** (D.)—An exhibition type of large size and great beauty. Color is opaque pink. Face of petals is creamy white, reverse phlox-pink, the reflection from reverse of petals giving the whole flower an opaque effect. Each 50c.

**Mrs. Alfred B. Seal** (D.)—Undoubtedly the largest and finest pure, rich, glowing old rose dahlia ever produced. Nothing we have ever seen can even remotely approach it. Such an unusual coloring—the softest, richest shade of absolutely pure, growing old rose imaginable, without a trace of any other color. The flowers are huge, and of great depth and substance, and are held proudly erect above a fine strong, tall bush, on long stiff stems. Awarded the Achievement Medal, offered by the Publishers of The American Home for the best new dahlia. Was the Shining Star of the Portland Dahlia show 1929, where quality reigned, winning two blue ribbons, one for best flower in the show and one for the largest. A magnificent flower. Each \$3.00.

**Mrs. Eleanor Martin** (D.)—Very large flowers, can be grown to 10 inches in diameter on stiff, 2-feet-long stems. The form is of best exhibition type and the coloring is unique, different from all others, a beautiful mulberry with golden suffusion. Each 50c.

**Mrs. Ethel F. T. Smith** (H. C.)—An immense creamy white shading to lemon. The plant is tall and vigorous and is a generous producer of extra large blossoms. Stems are long and straight. A beauty. Each 50c.

**Mrs. I. de Ver Warner** (D.)—A wonderful dahlia that has justly gained a great reputation. In color it is of that refined, pleasing mauve-pink that is usually referred to as an orchid coloring. The flowers are large, of perfect form, on long, stiff stems, and are so placed as to show their full profile. Each 25c.

## POMPON DAHLIAS

Pompons are the midgets of the dahlia family, producing very small compact flowers, like miniature snowballs, averaging about 1½ inches in diameter. They are invaluable for cut flowers owing to their fine stems and long keeping qualities, and their abundance of blooms. All are dwarf growers averaging about 2½ feet in height and are especially suitable to plant as a border in front of the taller growing, large flowering varieties.

ALL POMPONS 25c each

**Amber Queen**—Rich clear amber, shaded apricot.

**Baby**—White edged lavender.

**Beebe**—Combination of pink and mauve on white ground.

**Belle of Springfield**—Very small, perfect blooms of bright brick red.

**Censor**—Deep crimson with lighter shadings. Very neat.

**Clara Harsh**—Perfect blooms of yellow, tipped with crimson.

**Eleganta**—Beautiful bright rose pink. Very free.

**Darkness**—Very perfect flowers of deep velvety maroon; almost black.

**Dark Eye**—White ground, with lavender tips and center.

**Dusky Babe**—Small rich crimson.

**Eureka**—Rich bronze, shading to yellow.

**Fairy Queen**—Beautiful sulphur yellow, edged pink.

**Fashion**—Clear bright orange.

**Harry Snooks**—Rosy pink, with pale center.

**Oriental Beauty** (H.C.)—A magnificent new hybrid cactus that has to be seen to be appreciated. For sheer beauty and perfection of form, stem and foliage, this is the queen of dahlias. A clear brilliant rose pink, a tone deeper than Delice. Just a suggestion of a lighter tint at the tips accentuates the beautiful incurved form. Blooms 7 to 8 inches. Plants tall strong growers and insect proof. Its wonderful color, perfect form, fine keeping qualities, long erect stems, full center, and long blooming season, make it outstanding in any collection. Won first prize for best flower in the show at Los Angeles, 1927. Was awarded The American Home Achievement Medal in 1928. A wonderful flower.

Each \$2.50

**President Wilson** (D.)—A large and attractive variety on a good stem, that is a great favorite with everyone. In color it is a rich crimson with each petal distinctly tipped white. A very beautiful flower, fine for exhibition. Each 75c.

**Pride of San Francisco** (D.)—Large blooms of a brilliant golden salmon pink held erect on stout stiff stems. Plants are of compact growth and flowers are extra fine keeper. Should be in every garden. Each 50c

**Radio** (D.)—This immense dahlia is surely a wonder, bearing blooms 12 inches in diameter, without disbudding. Color is brilliant red, bordered yellow, with a yellow reverse. A most striking combination of colors that attracts a great deal of attention. Each 50c.

## 12 BEAUTIFUL POMPON DAHLIAS WORTH \$3.60, SENT POSTPAID FOR \$2.00

COLLECTION 12—We grow over 50 varieties of pompons but do not have space to list them all, therefore are offering our surplus bulbs in this collection. These bulbs will all be labeled with their correct names, and no two alike, chosen with regard to color, however they must be entirely our own selection.

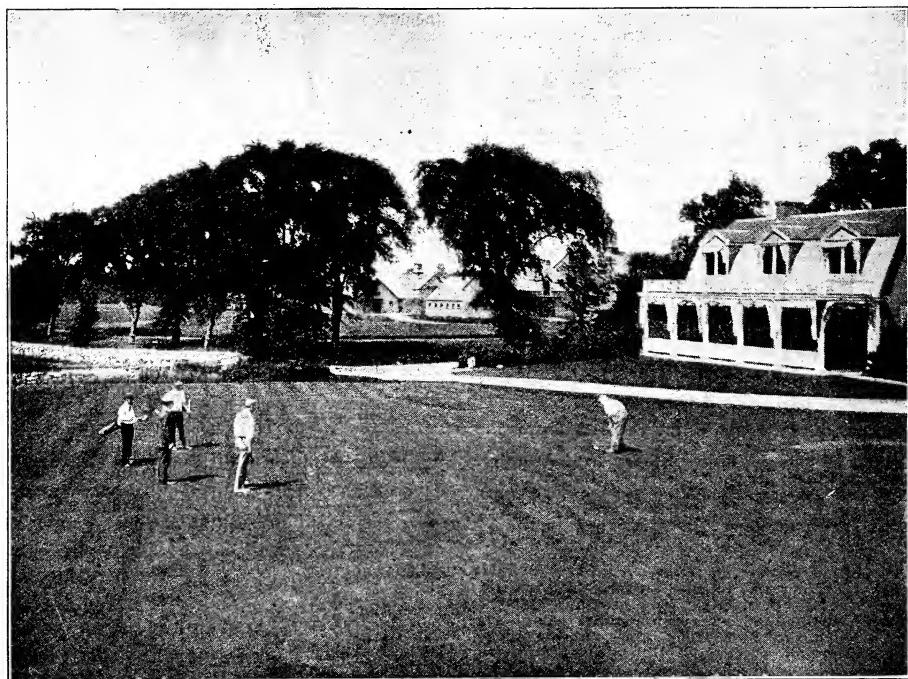
## OUR BIG VALUE COLLECTION No. 10 10 CHOICE DAHLIAS, WORTH \$5.00 OR MORE, SENT POSTPAID FOR \$1.50

COLLECTION 10—Since it is impossible for us to gauge the amount of sales upon any variety in advance, we often have a surplus of dahlias in very good sorts. In this collection we offer a selection of bulbs which are untagged, but are chosen with regard to color, and no two alike, and for those who are not particular to have the names, they will give fine satisfaction. These bulbs are all of large flowering, double varieties, and no other selection than our own can be permitted. Price per box of 10 good strong bulbs, in 10 varieties, \$1.50, postpaid.

## COLLECTION No. 4 Our Selection of 4 Choice Dahlias for 75c, postpaid

Joe Fette—Beautiful snow white.  
 Kupfer—Deep salmon pink, with tan.  
 Lassie—Yellow base, tipped with rose.  
 Little Belle—Clear mauve pink; very compact.  
 Little Beeswing—Small yellow, tipped deep cherry.  
 Little Irene—A clear canary yellow.  
 Little Jenny—Beautiful, compact quilled flower, of primrose yellow.  
 Little Lloyd—Deep burnt orange, shading to amber.  
 Madeline—Pale yellow, edged purple.  
 Mrs. J. J. Kynn—Very small, deep, bright orange.  
 Nemesis—Rich, deep crimson, tipped white.  
 Philius—Yellow at base, tipped red.  
 Phoebe—Beautiful coppery orange.  
 Prince Charming—Cream, heavily tipped purple.  
 Vivid—Rich, brilliant scarlet of very perfect form.  
 Verida Flora—The green dahlia. The most unique novelty of dahlia culture. The flower is a rich verdant green, same shade as the foliage.  
 Winnifred—White, tipped lavender. Very dainty.

# LAWN GRASS



## SUGGESTIONS FOR MAKING AND CARE OF LAWNS

It must not be supposed that by sowing grass seeds at any season of the year in soil of any character, and in any state of cultivation or neglect, a durable, attractive turf is to be formed. From the beginning the lawn is both troublesome and expensive, and even when obtained, it is like liberty, preserved only by "eternal vigilance." The coarser natural grasses and weeds will take possession unless kept down, and wherever, from any cause, a bare spot is formed it will rapidly enlarge unless repaired.

A good foundation must be secured, or the rest of the work will be entirely wasted, and too great care cannot be exercised, since the roots must be able to penetrate quite 18 inches in order to keep the grasses growing through the scorching days of July, August and September, if the ground is not already very rich, give a liberal application of fertilizer, avoiding the use of stable manure, as it invariably contains seeds of weeds and noxious grasses. Bone meal never produces the "burned" appearance so often noticed after the use of ammoniated fertilizers. Harrow or rake the surface to the finest possible condition and roll until all elevations and depressions have been removed.

Rake the seeds in lightly, following with a roller of medium weight, a firmly rolled surface being absolutely necessary if the ground be dry; small areas may readily be packed firm by the back of a spade. Sowings made in the Fall, from the first of September to the middle of October, are most successful, but if deferred until Spring, sowings may be made in February, March and April.

When the grass is well set, about 4 inches high, it should be cut with a sickle or mown with the machine set to avoid cutting too closely, 2 inches at least being left above the root. After then a cutting every ten days and an occasional rolling will make the grass finer, strengthen the turf and keep all rank-growing weeds in check. In the heat of Summer the mower should be arranged so as to leave ample protection to the roots. An occasional saturation is much better than the daily sprinkling commonly thought beneficial. If bare spots appear they must be patched up by breaking the ground about 10 inches deep, smoothing the surface and raking in double the usual allowance of seed. To maintain the vigor and color of the grass a light top dressing of bone meal two or three times a year is advisable. Liberal applications of Grozit Brand sheep manure are very beneficial and will give your lawn that rich, velvety appearance that is so much admired by everyone.

For quick results apply a light dressing of Vigoro or Sulphate of Ammonia.

## BUTZER'S FANCY LAWN GRASS SEED

It is the easiest thing in the world to grow a beautiful lawn. There is nothing that gives quicker growth and a thicker sod than Butzer's Fancy Lawn Grass Mixture. It produces a perfect and enduring lawn of luxuriant richness, with closely interwoven, firm, elastic turf, and is often ready for mowing four weeks from sowing. This Lawn Grass is composed of a combination of various native and foreign, fine-leaved, deep-rooting grasses of interweaving habit, that flourish under our varied conditions, soils and climates, growing during different seasons of the year, so that a deep green, smooth and velvety sward, free from clumps, is maintained from Spring to Winter, year after year, and without burning brown in Summer.

Whether you want to seed a small grass plot in your yard or a lawn of more pretentious size, you should use **Butzer's Fancy Lawn Grass Seed.** Sow 1 lb. to 400 square feet.

**Price per lb. 60c, postpaid**

## BUTZER'S SHADY LAWN GRASS SEED

For sowing on the north side of buildings, between houses, and for securing a lawn under large shade trees

In many lawns there are places which seem as if nothing can be grown; some are shaded by large trees and others by buildings. For these locations we have offered for some time our **Butzer's Shady Lawn Grass Seed**, which readily meets the desired requirement.

**Price per lb. 75c, postpaid**

# LAWN GRASS—Continued

## CREEPING BENT GRASS

(*Agrostis Stolonifera*.) Distinctive on account of its compact, creeping, rooting stems. Of rapid growth and spreading habit, forming a strong, durable turf. Good for lawns and putting greens because of its fine texture. If sown alone, use 50 lbs. to the acre. Write for price.

## SEASIDE BENT

The long creeping stems and spreading habit of this splendid grass make it ideal for Putting Greens; it makes a lasting turf that withstands hard usage.

The leaves are fine and it develops a dense growth, making it valuable. Write for price.

## CHEWING FESCUE

A low-growing grass, fine leaved, forms a close turf that prevents ingress of weeds, permanent in all kinds of soils, even the lightest and driest; unexcelled for lawns and golf courses when properly grown. Write for price.

**Crested Dog Tail**—(*Cynodondas cristatus*)—A valuable addition for lawn grasses which require close cutting and an adaptability to resist tramping, as in golf links, etc.; about 21 pounds to the bushel. Write for price.

**Canadian Blue Grass**—(*Poa compressa*)—Recommended in all pasture mixtures on dry soil; thrives well on clay or hard trodden and poor soil. Sow 28 pounds per acre. Write for price.

**Kentucky Blue Grass**—(*Poa pratensis*)—As is well known, this is the grass for which the State of Kentucky is famous. Although it is preeminently pasture grass, it is frequently used in making lawns. When Kentucky Blue Grass is used for lawn purposes, the seed is generally sown at the rate of 30 to 40 lbs. to the acre. If White Dutch Clover is desired, this seed should be added at the rate of about  $\frac{1}{2}$  pound to every 16 pounds of grass seed. Write for price.

**Red, or Creeping Fescue** (*Festuca rubra*)—Red Fescue is adapted to about the same general climatic conditions as Blue Grass and can be grown as far northward as any agriculture is possible. Its leaves are bright green and the plant does not grow in tufts but creeps by underground stems, so that one plant may eventually cover a circle two to four feet in diameter. It is used mainly as a lawn plant. On sandy or gravelly soil it makes exquisite lawns. It will withstand more shade than most grasses and is therefore valuable for shady lawns. Write for price.

**Rough Stalked Meadow Grass** (*Poa Trivialis*)—A grass which deserves much greater popularity and should be better known as it is an ideal shade grass in the Northern half of the United States if it can have enough moisture. This grass is a perennial closely related to Kentucky Blue Grass but somewhat finer and softer. It has a splendid apple-green color and is a creeper. Sow in Fall or Spring, at rate of 1 lb. to every 300 square feet. Write for price.

**Red Top** (*Agrostis Vulgaris*)—A good perennial grass for permanent lawns and pastures. Does best on moist marshy land. If not overflow land, it is advisable to mix it with Meadow Fescue, Orchard Grass or Alsike Clover. Sow hulled seed 14 lbs. to the acre.

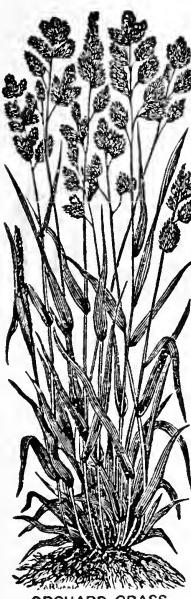
**Wood Meadow Grass**—(*Poa nemoralis*)—In the Northern and Middle States this is the best of all lawn grasses for deep shade. Very hardy and a perennial. Its creeping roots establish a lasting, even and deep green turf. On dry rich soil it makes good pastureage and hay, but is usually too expensive to sow. Sow in spring, 30 to 35 lbs. per acre. (14 lbs. to the bushel.) Write for price.

All of these grass seeds are governed in value by regular market quotations, and their values are subject to frequent changes, quite as much so as grain; and for this reason it is impossible for me to quote prices here which will hold good for the season. But would be pleased to give quotations on any seeds you may need.

## GRASS AND FIELD SEEDS

Our Grass Seeds are purchased by us from the best possible source for reliability. Owing to the frequent fluctuation of the market, we cannot quote prices. Write us for prices.

Alfalfa, Grimm	Orchard Grass
Alfalfa, Dry Land	Red Top
Clover, Ladino	Reed Canary
Clover, White	Rye Grass
Clover, Medium Red	Timothy
Clover, Mammoth Red	Meadow Fescue
Clover, Alsike	Sheep Fescue
Clover, Esparsette	Mesquite
Clover, Sweet	Millet
Canadian Blue Grass	Tall Meadow Oat
Kentucky Blue Grass	Wood Meadow
Creeping Bent	Poa Bulbosa
Crested Dogtail	Pasture Mixture
Chewing Fescue	Vetches
Bromus Inermis	Rye
	Oats



ORCHARD GRASS.

We do not sell WHEAT or  
BARLEY for SEED

## BRUSH PASTURE MIXTURE



RED TOP GRASS.

The modern farmer and stockman does not dig grubs and stumps from brush lands; the expense of muscle and money is too great to warrant the cost. After the wood from such lands has been cut and sold, he seeds the field to tame grasses and clovers which soon take possession of the soil, when it is pastured with sheep, horses and other stock. During the time of pasturing the roots and stumps will decay and thus the brush lands are made profitable from the beginning at very low cost. Write for price.

# ALFALFA and CLOVERS

## ALFALFA, OR LUCERNE CLOVER (MEDICAGO SATIVA)

This wonderfully productive and enduring clover-like plant has been grown in great areas in the Western States for a great many years, both for hay and pasture. Its value and adaptability for the Eastern and Northern States have been recognized only recently, and its planting in these sections is still in the experimental stage; the conditions requisite for success are not generally understood. It is slower in obtaining a start than common red clover, but when once established in dry or well-drained soil the roots penetrate the subsoil very deeply and the plants continue to produce large crops for many years,—so that the thorough preparation of the soil and the care of the young plants the first season is not unduly expensive when it is considered that a well-cared-for field of Alfalfa will continue to produce heavy and continuous crops of hay and green forage for such a long time. In many cases fields which have been planted fifteen to twenty years are still yielding fine crops.

Like all clovers, the plant draws nitrogen largely from the air, and as the roots penetrate very deeply it is regarded as one of the most valuable plants that can be grown to enrich the fertility of the surface soil. In seeding Alfalfa, well-drained land which will be free from standing water or excessive moisture during the winter months should be chosen. The ground should be plowed and the surface made as fine as possible before sowing the seed. The seed may be sown early in the spring, or in light soils early in the fall, and in clean land can be sown broadcast, using 20 to 30 pounds per acre; but if the land is foul or weedy it is best to sow the seed in rows or drills about 15 to 18 inches apart, so that the young plants can be cultivated and kept free from weeds until well established in growth, when additional seed is sown between the rows.

To promote growth and insure a long continuance of the stand, it is necessary that the tops or stems be cut every time they come into flower, and they should not be allowed to produce any seed. The growth is frequently quite small the first spring, but the tops must be cut when coming into flower, even if they are only four to six inches in height. It will be found that repeated slippings with the mowing machine or scythe the first year it is planted is the cheapest and most satisfactory way to keep the crop from being smothered by weeds as well as to promote the growth. If the first cuttings are not heavy enough to cure for hay they may be left on the ground and will act as a mulch for the young plants. When large enough to cut for hay, it should be mown early in the morning, and as soon as the cutting is wilted it should be gathered into windrows or cocks to dry slowly. This slow curing method will prevent its becoming black or the leaves dropping from the stalks. Alfalfa can be grown where any other clover will succeed and in many places where clover will not succeed has brought about a great demand for seed.

## DRY LAND ALFALFA

Dry Land Alfalfa will produce large, profitable crops of hay and excellent pasture on the high, dry lands of Eastern Oregon, Washington, Idaho and Utah, and is especially recommended for the hills and plateaux where irrigation is impossible. It comes from the highest, driest alfalfa sections, and is very superior seed. Write for price.

## GRIMM ALFALFA

Of great value where the winters are severe and where common alfalfa freezes out. This variety has attracted considerable attention of recent years because of its peculiar branching root system and frost resistance, which makes it of great value in the sections where severe winters prevail. Its yielding power of forage or hay is no greater than that of common alfalfa, although the price of the seed is generally much higher. We handle only the best strain. Write for price.

**Melilotus Alba** (White Blossom)—In recent years has attracted quite a little attention as a hay crop and soil improver and support as a pasture crop. It does not produce seed the first year, but usually an abundant crop of seed and hay the second year. It is harder than Alfalfa and more drouth-resistant and better for renovating the soil. Sweet Clover will thrive on most soils, either poor clay or sandy, but prefers a limestone soil. Where lime is deficient it should be added and good results will be obtained. Quite extensively grown on alkali soil. Sweet Clover is also recommended for bees. Write for prices.

## ALSIKE or HYBRID CLOVER

**Alsike or Hybrid Clover**—(*Trifolium hybridum*). The plant is perennial and very hardy, thriving equally well on wet or dry soils. Sow at rate of 10 to 20 lbs. to the acre.

## RED MEDIUM

**Red Medium**—This is the common Red Clover so largely grown. We shall be pleased to quote prices at any time.

**Mammoth or Pea-Vine**—This grows much taller than Red Medium, with larger, leafier stalks.

## White Dutch Clover

**White Dutch Clover**—(*Trifolium repens*) This thrives in almost every soil and climate, succeeding equally well on heavy moist land and thin dry hillsides.



## LADINO WHITE CLOVER

Also known as Giant White or Italian White, is a very large form of clover, usually making a growth of 8 to 12 inches as compared to the usual 3 or 4 inch height. It is a perennial. The stems lie flat on the ground and commonly root at the joints. It is not a deep rooted plant and consequently can be grown on rather shallow land where well supplied with humus and moisture. Ladino Clover makes especially vigorous growth on the lower, medium heavy types of soils in western Oregon, under irrigation or natural moisture during growing season. Grown for hay, pasture and seed. Will carry twice as much stock per acre as blue grass. Three cuttings can ordinarily be made per year. Sow 4 to 6 lbs. per acre. Write for Price.

# STIMUGERM

LEGUME INOCULATION

Cut Down Your Fertilizer Bills  
Get Your Nitrogen from the Air

Nitrogen is the most expensive ingredient in the fertilizers you buy, although it is plentiful in the air. When legume crops are inoculated with STIMUGERM this nitrogen is stored in nodules on the roots.

## ORDER BY NUMBER

No. 1. For Red, Mammoth, Aisike, Crimson and White Clovers.

No. 2. For Alfalfa, Sweet and Bur Clovers.  
Price Nos. 1 and 2— $\frac{3}{4}$  bu. size 40c;  $\frac{1}{2}$  bu. size 65c;  
1 bu. size \$1.00;  $2\frac{1}{2}$  bu. size \$2.25; 10 bu. size \$8.00.

No. 3. For Vetch, Canada Field Peas, Garden Peas and Sweet Peas.

No. 7. For Cow Peas, Peanuts, Velvet Beans and Lima Beans.

No. 8. For Garden Beans and Navy Beans.

No. 9. For Soy or Soja Beans.

Price Nos. 3, 7, 8 and 9— $\frac{3}{4}$  bu. size 40c; 1 bu. size 65c; 5 bu. size \$2.25.

## TALL MEADOW OAT GRASS (*Avena Elatior*)

**Tall Meadow Oat Grass** (*Avena Elatior*)—A magnificent grass, of rapid, luxuriant growth, growing on rich soil by June 15 to a height of 4 feet. Better than Timothy in the South. Can be cut three times and does well if sown alone. Tall Oat Grass vegetates with great luxuriance. It is early and productive and affords a plentiful aftermath. It is found most beneficial when retained by a close state of feeding. It makes a good hay; is natural to sandy loams, but thrives best on strong tenacious clays. It is a very hardy grass and endures much heat and cold. It possesses the advantage of early, quick and late growth, tillers well and is admirably calculated for a pasture grass. Write for price.

## RAPE

**Dwarf Essex for Sowing**—This is by far the best variety of Rape for forage. It is very valuable not only for green feeding purposes, but is of importance to the fruit grower as a cover-crop, and it affords excellent pasture for hogs and sheep late in the season. The plant of Dwarf Essex resembles at first the *Ruta Bagu*, but the tops become very large and leafy.

Dwarf Essex thrives best in cool weather. Ground should be prepared same as for turnips. Sow in June or July, with a turnip drill, in rows two and one-half feet apart, at the rate of two and one-half pounds of seed per acre. It is sometimes sown with spring grain, to provide fall pasture after the grain is cut; also sown at the last cultivation of corn. It may be sown broadcast, either with other fall forage crops or by itself, using one to five pounds of seed per acre.

Lb. 25c, postpaid. For larger quantities, inquire for prices.

## WE DO NOT SELL WHEAT OR BARLEY FOR SEED SUNFLOWER

**Large Russian**—This has very large single heads borne at the top of a single unbranched stalk usually, and with much more and larger seed than the common sorts. It is used extensively for feeding poultry. The plant often grows 10 feet high. Sow seed as soon as ground is fit for planting corn, in rows 3 to 4 feet apart and 10 inches apart in row. Cultivate same as corn. When the seed is ripe and hard, cut off the heads and pile loosely in any airy dry place where they will soon cure so as to be threshed out and cleaned. This variety will yield 1,000 pounds or more of seed per acre. Some species are planted largely in the flower garden for ornament. (See *Flower Seeds under Helianthus*.)

Pkt. 5c; 1 oz. 10c; 1 lb. 25c, postpaid; for larger quantities inquire for prices.

## SUDAN GRASS

(*Andropogon sorghum sudanensis*) 8 to 10 lbs. plants an acre.

Sudan grass is an early maturing annual sorghum plant. It is not particular about soil, but requires warm weather and must not be planted in the Northwest until the weather is well settled. Under favorable conditions only 90 to 100 days are required to mature a hay crop. Thick seeding is advisable, otherwise the crop grows too rank and coarse as the plants stool heavily and grow ten feet high if given sufficient room. Important as a fodder plant east of the mountains, where it seems to thrive on lands that are quite alkaline. It also endures excessive moisture and withstands extreme drought, but on the coast it seldom proves to be a valuable crop.

## Millets

Sow in April, May or June, 12 to 15 pounds for seed, or 20 to 30 pounds for hay per acre.

**Prices 10 lbs. \$1.50, postpaid. Write for quantity prices.**

**German or Golden**—  
**New Siberian**—  
**Hungarian**—

**Japanese Millet**—Improperly called "Billion Dollar Grass." Entirely distinct from all other Millets. It grows from 6 to 9 feet high, stands up remarkably and yields enormous crops. When cured it makes good hay and in quality is superior to corn fodder. It is relished by all kinds of stock. It may be sown broadcast at the rate of 15 lbs. per acre, but it is better to sow in drills 12 to 18 inches apart, using 10 to 12 lbs. to the acre. Cultivate until the plant is 18 inches high, when its rapid growth will smother all weeds. It does best on low moist ground. 20c per lb., postpaid. Write for price in quantity.

## SPELTZ OR EMMER

**Emmer** (*Triticum Dicoccum*)—Often Mistakenly Listed as Speltz—Similar to barley in growth, but produces two grains in a spikelet. A comparatively new and profitable crop, yielding 30 to 100 bushels of grain, or four to six tons of good hay per acre. Thrives well on poor soil, and dry weather seems not to affect it. After threshing, the straw makes good feed. Sow in Spring at rate of 75 to 100 pounds per acre. We offer choice, recleaned seed of the true variety.

## SERRADELLA

**Ornithopus sativus** (*Serradella*)—The main object of this plant is decidedly that of serving as a green manure to be ploughed under. It thrives on lighter sandy soils, and though it does not shoot up high, it covers the field very thickly, indeed. If sown by itself without an upper crop the first cut might be used as green fodder which, though it is no plant of great nutritive value, is eaten with no objection by either cattle or horses. Or that first cut might be dried to hay which is a fairly good fodder, too. After that and when the plants have grown up sufficiently again the field might be ploughed under.

If sown in an Oats—or Summer-rye crop, the field might be grazed after the Oats or Rye are off, or ploughed under after a while.

It is not a plant destined for a good heavy class of soil, where several others would decidedly do better and yield greater benefits.

Serradella is never sown with grasses; its only connection with these being that of serving as a green manure precedent to the laying down of a pasture-land. Write for price.

## RAPE

**Dwarf Essex for Sowing**—This is by far the best variety of Rape for forage. It is very valuable not only for green feeding purposes, but is of importance to the fruit grower as a cover-crop, and it affords excellent pasture for hogs and sheep late in the season. The plant of Dwarf Essex resembles at first the *Ruta Bagu*, but the tops become very large and leafy.

Dwarf Essex thrives best in cool weather. Ground should be prepared same as for turnips. Sow in June or July, with a turnip drill, in rows two and one-half feet apart, at the rate of two and one-half pounds of seed per acre. It is sometimes sown with spring grain, to provide fall pasture after the grain is cut; also sown at the last cultivation of corn. It may be sown broadcast, either with other fall forage crops or by itself, using one to five pounds of seed per acre.

Lb. 25c, postpaid. For larger quantities, inquire for prices.

## WE DO NOT SELL WHEAT OR BARLEY FOR SEED

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## White Seed Oats

**White Seed Oats**—We always try to have a selected recleaned stock of No. 1 White Seed Oats, which we can supply at market prices. Write for samples and prices on the quantity you require.

## Victory Oats

**Victory Oats**—A medium maturing tree oat with stiff straw, large, white kernels and a heavy yield. One of the highest yielding varieties at several Northwest Experiment Stations. Recommended for Western Oregon and for unirrigated areas east of the Cascades. Write for price.

## Gray Winter Oats

**Gray Winter Oats**—This Oat is planted extensively throughout the Northwest as a Fall or Winter Oat. Is well and favorably known, being a good yielder, and the Oats are large and plump. Write for price.

We also carry the following. If interested  
write for price.

## CANADIAN FIELD PEAS and

### CHEAT SEED

### SEED RYE

### BUCKWHEAT

## BIRD SEED

### Select—Recleaned

	Price
Canary Seed, per lb., postpaid . . . . .	\$0.15
Rape Seed, per lb., postpaid . . . . .	.15
Hemp Seed, per lb., postpaid . . . . .	.15
Flax Seed, per lb., postpaid . . . . .	.15
Millet Seed, per lb., postpaid . . . . .	.15
Sunflower Seed, per lb., postpaid . . . . .	.20
Maw Seed, per lb., postpaid . . . . .	.50
Lettuce Seed, per 1/4 lb., postpaid . . . . .	.10
Cuttle Bone, each, postpaid . . . . .	.05

Mixed Bird Seed, 1lb., 15c; 5 lbs., 60c, postpaid.  
The postpaid prices apply only to the 1st, 2nd and 3rd zones.

# OREGON GROWN ROSE BUSHES

"THE WORLD'S BEST"—ALL TWO-YEAR FIELD GROWN, BUDDED AND POSTPAID



## How to Grow Roses

**Situation:** Good roses may be grown in almost any soil and position, but if the highest quality is desired it is necessary to select an open, sunny position, sheltered from north winds and clear of all roots of trees and shrubs.

**Preparation of the Beds:** Roses will grow and give good returns in any fertile, well-drained ground, but it is worth while to use some care in the preparation of the beds, as the general health of the plants, quantity and quality of the blooms usually more than repay for the extra care expended on this detail. The best soil for this is soil from an old pasture and well-rotted cow manure mixed with bone meal. Dig out the bed to a depth of two feet, and if drainage is imperfect, it must be provided for by putting about six inches of broken stones or any rough material in the bottom. Fill in with a mixture of soil, manure and bone meal as above. It is best to make the bed some time in advance of planting to allow time for settling. After the soil has settled it should be about an inch below the adjacent surface. Make beds not more than three and one-half feet wide, which enables you to pick the roses without stepping on the beds.

While many of my customers are familiar with the grade of roses which I send out, yet I wish to direct the attention of those who have never planted my stock as to the manner in which these are prepared. My plants are two years old and are what is called field-grown, that is, the plants have been cultivated in the field during the growing season. In the Fall they are carefully dug and are ready for market.

All of these plants are budded or grafted, and while some planters prefer stock grown on their own roots, on account of the liability of budded plants to throw up suckers. This will rarely occur if the deep planting as directed below is followed, and if a wild root should appear it is readily distinguished by its seven small leaves instead of the usual five. Remove it closely to the root. Much can be said of budded plants as being more vigorous, producing finer blooms, and coming into bearing sooner and are just as permanent and hardy as on their own roots.

**Pruning:** About the end of October it is well to cut back to about three feet all the canes of the strong-growing sort. This prevents them from being whipped by the winter winds, which, unless staked, would loosen and break the tender feeding roots. The principal pruning should be done early in the spring. If quantity of bloom for the garden effect is the object sought, then four or five canes may be left three feet in length and all very old or weak growth cut away entirely. After the plants are through blooming, the canes should be shortened back at least one-half to enable the plants to make a strong growth. If quality is desired, all weak growth should be removed and all remaining canes cut back in proportion to their development. The weaker ones to about four inches from the roots and the stronger ones to about eight inches. All canes should be cut off to about a quarter of an inch above an outside bud. By doing this the plant will grow in an open head, as the buds usually grow in whatever direction they first take. Roses pruned in this way require no staking up and will need no summer pruning. The cutting of the flowers with good stems being sufficient. Climbing roses require no pruning beyond cutting out very old or dead wood, and the shortening of the laterals and canes to make the growth conform to the space to be covered.

# OREGON-GROWN ROSE BUSHESS—“The World’s Best”

ALL TWO-YEAR-FIELD GROWN, BUDDED AND POSTPAID  
50c EACH, 3 FOR \$1.25, 6 FOR \$2.00, \$4.00 PER DOZEN

**American Beauty (H. P.)**—One of the largest, sweetest and best; rich, rosy crimson, shaded and veined in a most charming manner.

**Augustus Hartman (H. T.)**—Brilliant red flushed with orange. Very large well formed flowers with high pointed center.

**Betty (H. T.)**—Beautiful coppery-rose color, overspread with golden-yellow; fragrant.

**Chateau de Clos Vougeot (H. T.)**—A very rich, fiery scarlet shading to deep velvety crimson. It is delightfully fragrant, a prolific and continuous bloomer.

**Cheerful (H. T.)**—Large, full flowers of perfect shape and form, with enormous individual petals and grand general character. Color, rich orange flame overspreading the petals to a distinct orange yellow base.

**Columbia (H. T.)**—This beautiful rose is of strong, vigorous habit of growth and exceptionally free-blooming. The flowers, which are of good size, are perfect in form, both in bud as well as when fully expanded. In color it is a most pleasing shade of rose-pink and delightfully fragrant.

**Constance (H. T.)**—Rich orange yellow, distinctly streaked and splashed with crimson, long pointed buds; free bloomer.

**Countess Clanwilliam (H. T.)**—A distinct and charming rose, producing flowers in great abundance. Color delicate peach pink, petals flamed and edged with deep cherry red. Long pointed buds opening to large full flowers. Of strong, vigorous habit.

**Crimson Emblem (H. T.)**—A superb new Irish rose of a rich and glorious crimson color heavily shaded maroon. Buds and flowers of superb form, of fine size and produced on fine long stems, admirably adapted for cutting. Wonderful mildew-proof foliage.

**Donald MacDonald (H. T.)**—Orange-carmine, semi-double flowers of medium size; perfumed. Blooms in sprays; compact growth.

**Dorothy Page Roberts (H. T.)**—Coppery pink, suffused with apricot yellow, very free and perpetual, a delightful garden rose.

**Duchess of Wellington (H. T.)**—Intense saffron yellow stained with rich crimson which as the flower develops, becomes deep coppery saffron yellow. Delightfully fragrant.

**Florence Pemberton (H. T.)**—Large, full flowers, beautifully formed; creamy-white, suffused pink, particularly in center.

**Frau Karl Druschki (H. P.)**—The white American Beauty. Makes splendid buds and immense flowers; perfectly double.

**General MacArthur (H. T.)**—Dazzling crimson scarlet; delicious perfume and magnificent foliage. Blooms in great profusion.

**General Jacqueminot (H. P.)**—Rich, velvety crimson, changing to scarlet crimson. A magnificent rose, equally beautiful in the bud state or open.

**Golden Emblem**—A grand new Irish rose of ideal habit of growth, with holly-like, glossy green foliage, each stem bearing a glorious golden yellow flower of the finest form. The peer of all yellow roses.

**Golden Ophelia**—Rich golden-yellow flowers in greatest freedom on stout, wiry stems, clothed with glossy, dark green foliage. Especially well adapted for cutting and personal adornment.

**Grange Colombe (H. T.)**—Large creamy white, with salmon and fawn centers. Plant very sturdy.

**Grus an Teplitz or Virginia R. Cox (H. T.)**—Color fiery crimson, with a dark velvety sheen; very fragrant; free blooming.

**Hadley**—A fine American pedigree rose producing flowers of elegant form and substance. Color rich crimson scarlet shaded maroon. A glorious rose.

**Hoosier Beauty (H. T.)**—A grand new hybrid tea rose of American origin. Flowers dark crimson, shaded with maroon and veined with black; petals of remarkable substance—like so much crimson velvet; buds beautifully formed, with fine, pointed shape, opening into large, double flower.

**Hugh Dickson (H. P.)**—This superb Irish rose stands in the front rank as a producer of the very finest brilliant crimson-scarlet roses. Of strong, vigorous growth and free flowering habits; one of our most favorite varieties.

**Humboldt (H. T.)**—Bud medium size, long pointed, flowers medium double, very lasting, bright rose-pink on long stems. Vigorous, upright grower, few thorns, very hardy.

**Imperial Potentate (H. T.)**—Rich, rosy carmine, fine buds, splendid cut flower, sweetly scented.

**Irish Elegance**—Bronze orange in the bud, opening into large single flowers of a lighter shade. Vigorous growing and perpetual blooming.

**Irish Hope (H. T.)**—Bud large, long pointed, very lasting, extremely fragrant, rich rosy carmine with maroon shading. Vigorous upright grower, very hardy.

**J. B. Clarke (H. T.)**—Irish variety of great merit either for garden decoration or cut flowers. The color is bright crimson shaded maroon; petals large, flowers very full and perfectly formed. Flowering from early summer until late autumn.

**Juliet (H. B.)**—Flowers beautifully formed, with petals of fine shape and substance. The color is a bright orange-red on the inside of petals, while the reverse side is of a rich old gold color.

**Kaiserin Aug. Victoria (H. T.)**—Elegant, large pointed buds; large, full, double flowers; color delicate creamy-white; fragrant.

**Killarney Brilliant (H. T.)**—Color an exquisite shade of deep shell pink lightened with silvery pink. The base of the petals is a soft silvery white relieved with enough yellow to make it more attractive. The buds are exceptionally long and beautifully formed.

**Killarney Double White (H. T.)**—A distinct rose similar to the famous Killarney in size, shape and fragrance, but snow white.

**Kitchener of Kartoum (H. T.)**—Dazzling scarlet; single flowers in great masses; a wonderful new decorative rose; should not be pruned but allowed to grow naturally. Something different.

**La Champagne (H. T.)**—Large buds and medium-sized, semi-double (25 petals), blooms peach-colored with yellow base. Vigorous plant. The buds are especially lovely, and the stiff stems hold the flowers erect, even after heavy rains.

**La France (H. T.)**—A silvery rose, changing to pink. A general favorite. Sweetest of all roses.

**Lady Alice Stanley (H. T.)**—A gem that everyone admires; it is absolutely perfect in every way; in color it is a beautiful shade of coral-rose, the inside of the petals shading to flesh-pink, fragrant.

**Lady Ashtown (H. T.)**—Pale Rose du Barri, shaded to yellow at base of petals. Reverse side of petals silver pink; large, long pointed buds, opening into a beautifully formed flower; a rare and most beautiful variety.

**Lady Hillington (T.)**—Deep apricot yellow, long and pointed bud. Flowers are of good substance and very lasting; foliage luxuriant; a fine forcing or garden rose, excellent for cutting.

**Laurent Carl (H. T.)**—Gigantic oval buds and blooms of deep, glowing carmine-crimson, perfectly formed and pungently fragrant. Plant of average growth, with foliage requiring the usual attention. It blooms freely throughout the season.

**Los Angeles (H. T.)**—Flame pink toned with coral and shaded gold at base of petals. Beautifully formed, fragrant, vigorous and very free blooming. Nothing better.

**Louise Catherine Breslau (H. T.)**—Entirely distinct from all other roses in color; a superb shrimp-pink shaded coppery-orange and chrome yellow, large full flowers.

**Miss Lolita Armour (H. T.)**—A magnificent new rose of a rich chrome yellow, shaded to coppery orange. Flowers large, of finest form, on stout canes.

**Mme. Abel Chatenay (H. T.)**—A rose of extraordinary merit. A free bloomer, with flowers of good size and substance. Color beautiful rosy carmine, with darker shadings. One of our finest decorative and garden roses and always in great demand.

**Mme. Butterfly (H. T.)**—A sport from the popular new rose Ophelia, which may be said to be a glorified form of that fine variety. In this new sort all the colors are intensified making it a rich harmony of bright pink, apricot and gold. The unopened buds are especially distinct with their lovely shades of Indian red passing to golden yellow at their base.

**Mme. Edouard Herriott (H. T.)**—The famous winner of the Daily Mail prize. The color being terra cotta bronze and geranium red, a new combination of colors in a rose.

# SPECIAL WE HAVE A SURPLUS OF MME. CAROLINE TESTOUT ROSES

The Portland Rose. The best known and liked of all roses in the City of Portland. It is planted by the thousands along the streets between the curbs and the sidewalks, in fact you can see this grand rose all over the city. A rose that is hard to beat.

**6 for \$2.00; 12 for \$3.50, postpaid**

At this special price we will send the roses postpaid up to and including the fourth zone. For points beyond the fourth zone please include additional postage.

These roses are all large, sturdy, two-year-old bushes, field grown, budded on manetta stock, and will give you splendid cut flowers the first season. Not less than six sold at this special price of 6 for \$2.00 or 12 for \$3.50, postpaid.

## OREGON-GROWN ROSE BUSHESS—“The World’s Best”

ALL TWO-YEAR-FIELD GROWN, BUDDED AND POSTPAID  
50c EACH, 3 FOR \$1.25, 6 FOR \$2.00, \$4.00 PER DOZEN

**Mme. Caroline Testout (H. T.)**—A grand rose of the La France type, but with flowers larger and finer. Color, bright satiny pink; very fragrant and free in bloom. One of the handsomest roses and should be planted extensively.

**Mme. Melanie Soupert (H. T.)**—For delicacy in coloring it would be difficult to surpass this magnificent semi-double large-flowered variety which is especially fine in bud form; in color a charming pale tint of salmon-yellow with pink and carmine suffusion.

**Mrs. Aaron Ward (H. T.)**—Deep golden-orange, shading out to creamy-yellow at edge of petals. Beautiful deep buds.

**Mrs. A. R. Waddell (H. T.)**—A strong, rampant growing Hybrid Tea Rose, with foliage that is ornamental in itself. Large, long pointed buds of bright rosy scarlet, opening into a finely formed flower of a rich apricot or salmon color.

**Mrs. Charles Russell (H. T.)**—“American Beauty” can compete with it when it comes to counting points. Stems three feet long, stiff and surmounted by grand rosy-pink blooms.

**Mrs. Dunlop Best (H. T.)**—Pointed, saffron-yellow buds, with dull apricot shadings, opening to rich, reddish apricot flowers of great sweetness and beauty. Very vigorous, low, spreading growth and is healthy and free flowering.

**Mrs. S. K. Rindge (H. T.)**—A sister variety of Lolita Armour. Buds very long and pointed, rich golden yellow outside of petals stained at base with Indian red.

**Old Gold**—Large reddish orange flowers with copper and apricot shadings. Free blooming. Handsome foliage. Richly beautiful.

**Ophelia (H. T.)**—Orange salmon buds, opening to flowers of dainty pink. The foliage is clean, dark and leathery—growth vigorous and free, producing long canes. Blooms early and continuously.

**Padre (H. T.)**—Coppery scarlet, flushed yellow at base, flowers semi-double with 15 to 20 petals, often curiously notched, exceptionally free bloomer. Color commands attention.

**Papa Gontier (H. T.)**—A magnificent red rose; flower large and semi-double; a vivid cherry red color, shaded yellow, reverse of petals crimson; free-growing and flowering very profusely. One of the very best for open ground. No other red Tea Rose can compare with it.

**Paul Neyron (H. P.)**—Luminous cerise-red. One of the largest roses under cultivation. It is a strong, healthy grower with clean foliage of a rich green shade. An excellent Hybrid Perpetual Rose.

**Pax Labor (H. T.)**—A mammoth very double Rose of pale yellow color that thrives best in warm weather. It is a prolific bloomer, with robust and beautiful foliage.

**Pink Cochet**—Very rank growing for a variety of its class. Strong canes almost thornless springing from the base all season long. Magnificent buds opening into flowers of grand size and build; very lasting and of sweet tea scent. Color deep rosy pink, inner side of petals shaded silvery rose. Fine for massing in beds.

**DON’T** be misled by the fine catalogs with little prices sent out from the East. Buy our field-grown plant, much larger and better than the weakly Eastern stock.

**Pink Radiance**—Carmine-rose-pink of a magnificent, clear shade. Constantly in bloom from early spring until late fall. A strong grower of graceful upright habit.

**Premier (H. P.)**—A clear pleasing red; does not fade. Good form and habit, excellent for cutting and inside forcing; fragrant, thornless, free blooming.

**Queen of Fragrance (H. T.)**—Large double elegantly shaped shell pink blooms, tipped with silver. Noted for its powerful perfume.

**Rapture (H. T.)**—A sport of that favorite variety Mme. Butterfly with deeper tinted flowers and of more vigorous habit of growth. Free flowering and richly perfumed.

**Red Letter Day**—Brilliant glowing crimson scarlet, opening into medium-sized cactus-shaped flower of curious formation. One of the freest blooming roses extant. Makes a fine decorative subject and equally desirable for bedding.

**Souv. de Claudius Pernet (H. T.)**—On the order of Constance or Golden Emblem but with large elongated and beautiful formed buds. Color is clear brilliant yellow. Wonderful foliage.

**Sunburst (H. T.)**—A veritable giant among yellow roses throwing up heavy canes clothed with most ornamental foliage and crowned with glorious buds and flowers. The buds are very long and of most beautiful form, opening into a gorgeous colored flower. The color is a rich cadmium-yellow shaded with orange and copper. One of the very finest yellow roses yet raised.

**T. F. Crozier**—Strong free branching grower making a large vigorous bush. Flowers very large, full and globular with high built center, produced freely all through the season. Color bright canary yellow shaded and flushed with ivory. A rose of great beauty and refinement, one of the most valuable garden and exhibition roses of recent years.

**Ulrich Brunner**—Immense big blooms of a bright cherry-red shade with a lovely rich fragrance. Very free flowering and one of the finest for cutting. Ideal for trailing on a pillar.

**William F. Dreer (H.)**—Soft shell pink, base of petals rich golden yellow. Sometimes the entire flower is covered with a golden suffusion. This rose has the same parentage as the well known Los Angeles and like that sort is beautiful in all stages of development from the opening buds to the well expanded flowers. We are quite sure that all who try this variety will be pleased with it.

**William R. Smith (T.)**—Large, double, creamy white flowers, with strong tints of pink and lilac, produced on long, wiry stems and lasting long when cut. The plant is spreading in growth and the foliage is exceptionally fine, of deep olive-green, thick and leathery, and exceptionally free from disease.

**Winnie Davis**—Fine apricot pink shading to the flesh tint at base of petals. A grand, hardy garden rose.

**Mildew**—This is a flour-like substance that appears upon the foliage of Roses caused by too much dampness. Not especially injurious and can be eradicated by sprinkling foliage, when wet, with ordinary sulphur flour.

## RARE AND RECENTLY INTRODUCED ROSES

Price, 50c each, \$5.00 Dozen, Postpaid

**Aspirant Marcel Rouyer**—Long shapely bud that develops in a good sized, substantial double flower with heavy shell-like petals. Color, deep apricot, tinted red at center, reverse of petals shaded salmon-flesh with deep yellow veinings at the base.

**Austrian Copper** (*Rosa foetida bicolor*)—Species. Rather more slender in growth than most of this group, reaching 4 to 5 feet. The wiry stems are covered in early summer with garlands of single flowers, vivid copper-red on the inner surface of the petals and bright yellow on the outside. Spectacular and of great interest.

**Dame Edith Helen**—A magnificent, fragrant, full-bodied new rose of many substantial petals which curl back prettily, holding steadily to one vivid pink color, and that the rare Rose du Barri shade.

**Doris Dickson**—Exquisitely formed medium-sized flowers, the base color of which is orange cream, but so heavily veined and pencilled with deep brilliant cherry that it is impossible to adequately describe the unique coloring. Growth vigorous, very free flowering, and extremely fragrant. A variety that is sure to become a favorite. \$1.50 each.

**Earl Haig**—A type rare among red roses, and so of obvious interest to the selective buyer. Outside of its fragrance, freedom and unfading cherry-crimson color, the thick rolling petalage, and permanent high-built center, fix its superiority over less compact varieties.

**Etoil de France**—This famous French Rose probably needs no extended description, for it is already quite well and favorably known. Flowers globular, very full and lasting, borne on stiff stems, well above the foliage. Color deep velvety crimson of much richness and brilliancy. Remarkable for its strong growth and free blooming qualities.

**Evening Star** (H. T.)—Medium size bud, large, full, double, globular, slightly fragrant, golden yellow, shaded apricot, free bloomer, vigorous grower.

**Fontanelle**—One of the very largest hybrid teas, with remarkable size to the rounded petals. The color is a rich, clear yellow naturally deeper towards the center, particularly strong toned during cool weather. A stronger grower than most yellow varieties.

**Harrison Yellow** (A. B.)—One of the best yellow roses for cold climate. Its cloud of blossoms is a miracle of soft yellow in the spring.

**H. V. Machin**—A gorgeous flower of large size described by the introducers as the most magnificent exhibition variety they have introduced; in color an intensely black-grained scarlet-crimson, carried on rigid, sturdy stems with ideal foliage. A vigorous, strong growing Rose for the garden.

**Jean C. N. Forestier** (Pernet)—Long, reddish carmine buds; flower carmine-lake, slightly tinted with orange and suffused with golden yellow. A very large, full, globular and extremely sweet-scented Rose. The plant is vigorous, and of branching habit.

**John Russell** (H. T.)—Rich velvety-crimson blooms, borne on upright stems. Flowers are very large and full and of good form. A rose for those who want something out of the ordinary.

**Lady Margaret Stewart**—Unquestionably one of the finest of the newer roses, with buds of deep sunflower yellow, heavily veined and splashed with orange-scarlet, sometimes entirely of the latter color, and opening to a firm full flower, the general color effect of which is cadmium orange. The flowers are quite fragrant and the leathery sage green foliage which covers the long rigid stems seems to be entirely disease-proof.

**Lulu**—Of particular value and beauty in bud form, they being abnormally long and substantial, with a swarthy orange red color. The flowers open up semi-double or single, brightened by an overflow of salmon-pink.

**Mabel Morse**—This clear bright yellow Rose of moderate size is sweetly perfumed. The color is retained better than in the older yellow varieties. Has superb glossy foliage, almost immune to disease. It is not a free bloomer, but each bloom is perfect when it comes.

**Mary Pickford** (H. T.)—A rose of the same type as Souv. de Claudius Pernet, but much deeper in color, being a rich golden orange, shading to yellow at the outer edge. The buds are daintily shaped, and are borne on a tall vigorous plant with rich dark glossy green foliage.

**Mme. Leon Pain**—Entirely distinct in color, a silvery-salmon, with deeper orange-yellow shaded center, the reverse of the petals being a salmon-pink; flowers large, full and well formed; very free-flowering and a splendid bedding variety.

**Mme. Segond Weber**—A grand Rose in every way. It is a vigorous grower, free-flowering, large, perfectly formed, cup-shaped, fragrant flowers of marvelous beauty. In color it is of that soft tone of salmon-pink which appeals to everyone.

**Mrs. William C. Egan**—An extremely vigorous strong healthy grower, with long, pointed buds of absolutely perfect form, that develop into flowers of good shape. In color it is a two-tone pink, the reverse of the petals a soft light pink, the interior deep flesh color with a golden line at the base of the petals; the flowers are carried on long stiff stems, and last in good condition for an unusually long time, either cut or on the plant; an exceptionally free and continuous bloomer.

**Monsieur Julien Potin** (H. T.)—This rose, the latest production of M. Pernet-Ducher, who introduced Mme. Edouard Herriot and Souv. de Claudius Pernet, will probably be popularly known as "Golden Pernet." Those who have seen it pronounce it the most gorgeous and unfading yellow yet introduced. The buds are long and the fully double blooms are of beautiful form.

**Norman Lambert**—A distinct color combination that is novel. The outside of the petals is a deep chrome-yellow with a marginal color effect of brilliant orange-scarlet merging to an irregular zone of burnt orange, the inside salmon-orange suffused bronze, shading to yellow at the base. The flowers are of medium size and form, delightfully fragrant and free-flowering. A splendid bedder.

**Queen Alexandra** (Pernetiana)—Face of petals deep vermilion with conspicuous orange-colored base. Reverse of petals old gold. An entirely new color combination and about the most striking thing to date.

**Rev. F. Page Roberts** (H. T.)—An excellent new addition to the yellow roses, quite different from any other variety. The inner face of the petals is a soft buff yellow, and the reverse a rich salmon, while the buds are often stained with copper red. The flowers are large, very double, and are at their best in the autumn. Plant is low and spreading, with mildew-proof foliage.

**Sunstar** (H. T.)—Deep orange yellow veined and splashed crimson and vermilion; lovely buds.

**Souvenir de Georges Pernet**—Oriental red, tips of petals touched with cochineal. Entire flower faintly shaded with yellow. Flowers very large and full on strong stout stems. Extremely hardy. One of Pernet Duchere's finest productions. Gold Medal Bagatelle Gardens, Paris.

**Talisman**—A splendid and very desirable new American Rose. The outside of the petals is bright golden yellow, shaded with pink. The inside is apricot, tinted gold and shaded rose-pink. A strong grower with glossy foliage.

### ABBREVIATIONS

**T.**—TEA—One of the best classes of Roses and truly ever blooming. They are hardy in this section, although during our coolest weather and in cold sections they should be protected with a covering of fir boughs, straw or burlap.

**H. T.**—HYBRID TEA—Most of these are as free flowering and as constant bloomers as the teas, and are hardier, stronger growers.

**H. P.**—HYBRID PERPETUAL—The hardest of all roses, vigorous in growth, free blooming.

## CLIMBING ROSES—50c each

ALL TWO-YEAR-OLD FIELD GROWN—Postpaid

American Beauty Climbing—Brilliant carmine.

American Pillar—Crimson-pink, large white center. Cascadia—Small single white in clusters.

Cecil Brunner—A climbing Baby Cecil Brunner.

Crimson Rambler—Dazzling crimson, strong.

Dorothy Perkins—Great clusters of pretty double pink flowers smothering the plant for a long season of the year. Elegant leathery foliage, impervious to mildew and hardy as an oak tree. This sort is now the most generally planted of this class of roses.

Dr. W. Van Fleet—Large shell pink, borne on long stems, ideal for cut flower.

Flower of Fairfield—Everblooming Crimson Rambler.

Gloire de Dijon—Buff-pink, orange shadings, large, full, fragrant, steady bloomer.

Hiawatha (T.)—Single, ruby crimson, large single flowers.

La France, Climbing—Loosely formed, globular flowers of silver-pink; highly perfumed.

Lady Hillingdon, Climbing—Apricot-yellow, fragrant, fine.

Los Angeles, Climbing—A fine climbing form of the new Los Angeles. Shrimp pink and coral color.

Marechal Niel—Rich golden yellow, fine but not as hardy as Emily Gray.

Mary Wallace—Large bright pink and gold blooms, double, very strong grower.

Mad. Caroline Testout, Climbing—Immense globular flowers of the same beautiful shade of pink as seen in the bush sort.

Mme. Edouard Herriot, Climbing—Brilliant coral-red buds and flaming flowers of orange-red and salmon. Moderate, climbing growth, and a continuous and liberal bloomer.

Paul Scarlet Climber—By all means the most brilliant rose known in any class because of its clear, vivid, shining scarlet in large semi-double flowers. These flowers never turn blue but retain their intense coloring until petals fall. Cannot be too heartily recommended as essential in any garden.

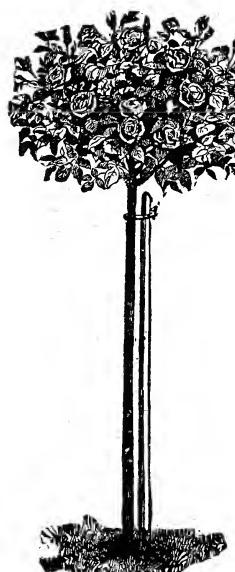
Sunburst, Climbing—Golden yellow to orange, fragrant.

Tausendschön—A lovely shade of soft pink, free and vigorous; splendid foliage.

Veilchenblau—Flowers reddish lilac, changing to amethyst and steel-blue, in great panicles.

Wm. Allen Richardson—Rich coppery-yellow.

## STANDARD OR TREE ROSES



These differ from the ordinary bush, in that it has an upright stem several feet in height. These have been very scarce this year. We can supply the following varieties. See general list for descriptions. Each \$2.50.

### CANNOT BE SENT BY PARCEL POST

Baby Crimson Rambler

Baby Edith Cavell

Columbia

Constance

Dorothy Perkins

Duchess of Wellington

Frau Karl Druschki

J. B. Clarke

General MacArthur

Golden Emblem

Hoosier Beauty

Kaiserin Aug. Viktoria

Los Angeles

Mme. Butterfly

Mme. Ed. Herriot

Ophelia

Ulrich Brunner

**Moss Rose**—A beautiful species distinguished by the moss-like covering of their buds. Vigorous, stocky growth, lustrous foliage and perfect hardiness; the flowers usually large and bloom exceptionally long.



Moss Rose—Pink, red, white. 50c each.

## BABY RAMBLER AND POLYANTHA ROSES

A type of roses which grow only a foot or two high, bear large clusters of flowers possessing great lasting qualities, and are always in bloom. They are fine for massing in beds, for bordering large rose beds or planted singly on the lawn. Perfectly hardy.

Price 50c each—per dozen, \$5.00, postpaid

**Cecil Brunner** (The Fairy, or Sweetheart Rose)—A Polyantha variety with dainty double little flowers of perfect form produced in many flowered, graceful sprays; color a soft rosy-pink on a rich creamy-white ground.

**Crimson Baby Rambler**—Has the same bright crimson color as the Climbing Crimson Rambler and blooms in clusters of 20 to 40 flowers at one time on plants of fair size. "Baby Rambler" is one of the best red roses for bedding.

**Ellen Poulsen**—The brilliant rose-pink flowers are much larger than the Baby Rambler type of Polyantha Roses. This variety is used by florists for forcing as it is attractive in color, sturdy in growth, and very floriferous. Beautiful as a low hedge or around evergreens.

**Erna Teschendorff**—Deep crimson and extremely attractive in contrast or when planted in masses.

**Greta Kluis**—A lovely shade of deep carmine-pink, passing to glowing carmine-red, on a plant of excellent habit and continuous-blooming quality. A variety we most heartily commend.

**Ideal**—Ideal indeed for edging or for making a brilliant bed of rich, lustrous garnet, blooming continuously all summer and until frost. The color is retained remarkably well until the flowers drop.

**Jessie**—A dependable sort, producing continually bright cherry-crimson flowers which endure well on the plants. Particularly useful for massing because of its continuous-blooming habit.

**Katharina Zeimet**—Fragrant, double flowers of pure white in large clusters, producing decorative masses. The plant is compact, bushy, dwarf, furnished with good foliage, and is unusually hardy.

**Miss Edith Cavell**—By all means the best of its color, which is a brilliant scarlet held right through until the flowers drop off. They have no blue tendency. The plant is of vigorous and satisfactory blooming quality and the variety is notably good.

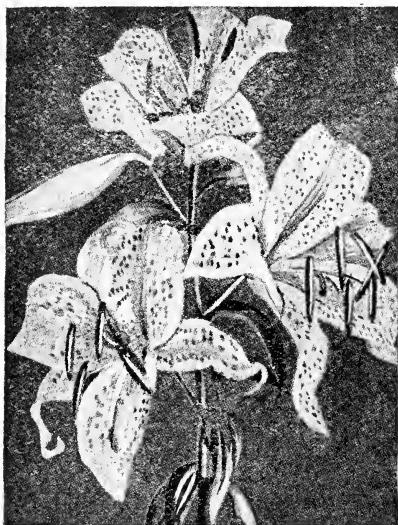
**Salmon Spray**—An interesting novelty from Australia. Rich salmon-pink flowers, 2 to 3 inches across, are produced continuously in great heads of ten to twenty, lasting a long time without discoloration. It makes a much stronger growth than almost any other Polyantha and reaches a height of 3 feet or more.

**Triomphe Orleanais**—Flowers large, for the class, of a bright cerise-red which is very lasting. A vigorous grower, bearing its blooms profusely in clusters.

**Baby Tausendschön**—Dwarf Polyantha with its bountiful bouquets of creamy white saucer-shaped flowers. Every petal edged with rosy pink.

# BUTZER'S HARDY LILIES

## Lilies are New Delights for Every Garden



### General Culture of Hardy Lilies

No garden is complete without Lilies and suitable varieties may be found for almost any situation. The fullest measure of decorative effect is secured when Lilies are used in combination with other plants and shrubs. Striking effects are produced by planting them among tall-growing perennials, in front of large shrubs, or among dwarf shrubbery, so that the blossoms may rise above its foliage.

Most Lilies will succeed in any light sandy or loamy soil, preferring an acid or a neutral soil. Plenty of leafmold or decayed peat should be added to the soil. An excellent mixture is one-third loam, one-third leafmold or peat or both, and one-third sand and good garden soil.

Good drainage is an essential point. The preparation of the soil should be such as to provide ample moisture during the growing period, but without having an excess of water during the dormant period. When planting the bulbs it is well to surround them with sand or fine gravel. This helps to drain away surplus moisture and tends to repel worms.

Occasionally some Lilies do not appear above the ground the first year after planting, but come up strong and vigorous the second season.

In cutting Lilies the lower part of the stem should be left, so that the bulb may complete its growth. To cut it to the ground injures and may destroy the bulb. Lilies should be protected from the frost by a light mulch of a covering of leaves, or granulated peat moss that is now so popular for this work.

Plant a few varieties and enjoy their beauty.

### Lilium Auratum

**The Gold-Banded Lily of Japan**—The most beautiful variety of all the lily family; should be in every garden. Flowers white, dotted crimson, with a clear golden band running through the center of each petal; very fragrant. A splendid lily for pots, or for planting out in the shrub or plant borders. Its large flowers and delicious perfume make it one of the most valuable of all. It is perfectly hardy with ordinary protection and suitable soil. Large bulbs, each 25c; doz., \$2.75, postpaid

### Tenuifolium

**The lovely Coral Lily of Siberia**—A great beauty. The brightest of all lilies. Grows 20 inches high, with finely cut foliage, slender stems and beautifully shaded coral-red flowers. Blooms very early.

Each 20c; doz. \$2.00, postpaid

### Lilium Auratum Platyphyllum (Macranthum)

This is without a question one of the most wonderful lilies in cultivation. The leaves are very long and broad and the stems attain a height varying from 7 to 10 feet. The flowers are similar in color to Auratum, but much larger. The golden band is not so pronounced and the dots are white; the petals more overlapping and of greater substance. The giant of the lily family.

Each 30c; doz., \$3.00, postpaid

### Candidum (Madonna Lily)

This is the ever-popular, fragrant, snow-white, hardy garden lily. The flowers are produced in clusters, at the top of 4 to 5-foot stems; blooms in the open ground in June. A very hardy and popular trumpet-shaped lily.

Each 25c; doz. \$2.50

### Henryi

**(The Yellow Speciosum)**—A new, rare and very beautiful lily from China. It is very hardy, and without doubt one of the best lilies for garden culture. The flower stalks, 3 to 5 feet high, carry 5 to 15 large flowers each, rich apricot-yellow, lightly spotted with brown. The shape and size of the flowers has suggested the name "Yellow Speciosum."

Each 30c; doz., \$3.00

### Longiflorum (Giganteum)

Of grand size and substance; especially fine for open ground. Plant in early December for Easter blooming. Mammoth bulbs, each 35c; doz., \$3.50. Large bulbs, each 25c; doz., \$2.50.

### Regale

The most vigorous and satisfactory Lily that has ever come under our observation. Perfectly hardy, of medium height, often bearing five to eight large handsome blooms. The color is white, the outer petals shaded in varying amount with pink, the throat suffused primrose-yellow, and fragrant. Each 20c; doz., \$2.00, postpaid

Special small but blooming size bulbs at 10c each, \$1.00 per doz.

### Speciosum Album

Pure white, flowers free.

Large bulbs, each, 30c; doz., \$3.00

### Speciosum Rubrum

**The Lance-Leaved Lily**—Thousands being grown each year in greenhouses. The typical form is white, flushed pink, and heavily spotted with carmine. The stem is about four feet high and has fresh, green, lance-shaped leaves, and the frilly flowers face downward and carelessly roll back their petals, while the stamens and pistil curl way out. A very beautiful lily, perfectly hardy, very seldom diseased, and a late August and early September bloomer. Plant the bulbs eight to ten inches deep.

Large bulbs, each 25c; doz. \$2.75

### Lily of the Valley

**Extra Select Pips**—One of the most satisfactory and charming Spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant, white flowers. Valleys thrive in any common soil, are perfectly hardy, and will succeed in shady situation. They can be left undisturbed in the open ground, where they will increase from year to year, and are most charming in beds or borders around the lawn. For outdoor planting and Winter forcing, pips are ready December to March.

**Selected Pips**—For forcing indoors or planting outside.  
Doz., 50c; 100, \$3.00

**White Calla Lily (Aethiopica)**—A well-known plant of easy culture for winter bloom, and makes a handsome house or window plant. To aid profuse blooming keep dormant from the middle of June until the last of September; pot on receipt in good, rich soil, using 6 to 8-inch pot, give light and heat in abundance. Both foliage and flowers are attractive in this desirable winter bloomer. Each 35c; 3 for \$1.00, postpaid

**New Godfrey**—Plant is more dwarf in growth; flowers lily white, very graceful and produced in astonishing numbers; come into flower quicker; will also do well in the garden for summer flowers.

Each 25c; 3 for 65c, postpaid

**ALL LILIES LIKE PEAT**

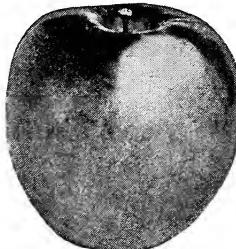
# FRUIT TREE DEPARTMENT

OUR SHIPPING SEASON for the above is from November 1 to April 1. Some seasons May 1, although it is too late for best results. We advise late fall or early spring planting while stock is dormant.

## APPLES

Unless otherwise priced	Each	Per 10	100
One year, 3 to 4 feet	\$0.50	\$4.50	\$30.00
One year, 4 to 6 feet	.60	5.50	40.00
Selected trees	75c-1.00		

Write for our low prices per 1000.



### APPLES—Autumn

Alexander—Large, greenish yellow, streaked with red.  
Fameuse—Medium greenish yellow, streaked with red.  
Gravenstein—Large, beautifully dashed with red and orange.

Maiden's Blush—Medium, yellow, red cheek.  
Red Beittigheimer—Very large, cream colored, covered with crimson.

Waxen—Medium, pale yellow.

### APPLES—Winter

Baldwin—Large, deep bright red.

Arkansas Black—Medium, dark maroon.

Ben Davis—Medium, yellowish covered with red.

Delicious—One of the best.

King—Very large, yellowish shaded with red.

Jonathan—Medium, light yellow, covered with red stripes.

Spitzenburg—Large, yellowish, broken with stripes of bright red.

Northern Spy—Large, greenish yellow, covered with purplish red stripes.

Tolman's Sweet—Medium, whitish yellow, slightly tinted red.

Wealthy—Medium, whitish yellow, shaded deep red.

Winesap—Medium, yellow, streaked red.

Rome Beauty—Large, yellow, shaded with bright red.

Yellow Bellflower—Large, yellow.

Yellow Newtown Pippin—Large, smooth, golden yellow.

Winter Banana—Yellow, bluish cheek, sub-acid, medium size.

Bismark—The apple novelty; everyone should try it; tree of short, stocky growth, thick, healthy foliage; fruit large, handsome, yellowish, sometimes shaded red cheek; flesh tender, pleasantly sub-acid; entirely new; seldom failing to bear when two years old.

## APRICOTS

	Each	Per 10	100
4 to 5 feet	\$0.75	\$6.50	\$50.00
3 to 4 feet	.50	4.50	40.00

Moorpark—Very large, yellowish green, shaded brown.

Breda—Medium, orange color.

Tilton—Large, rich color.

Royal—Above medium, rich and juicy.

The Lewis—The new Lewis Apricot is the largest, strongest growing, best yielding, best flavored apricot we have ever seen, and is perfectly hardy.

## NECTARINES

Selected Trees 75c Each

Boston—Large, deep yellow, bright flush; flesh yellow; very rich and luscious. Best for Oregon. August 1.

## CRAB APPLES

Price, 75c each

Florence—Red striped; early, juicy and crisp; fine for home gardens. September 1.

Red Siberian—Yellow with scarlet cheek. Bears young and abundantly. September.

Transcendent—Very large, good for cider; yellow striped red. Adapted to Montana. September.

## CHERRIES

Unless otherwise priced	Each	Per 10	100
One year, 3 to 4 ft	\$.75	\$7.00	\$50.00
One year, 4 to 6 ft	1.00	10.00	75.00
Selected trees	1.50	10.00	



Royal Ann (Napoleon Big-arreau)—A magnificent cherry of the largest size; pale yellow, becoming amber in the shade; richly dotted and spotted with deep red and with a bright red cheek; flesh very firm, juicy and sweet; tree a rapid grower and an immense bearer. (Early July.)

Lambert—Fruit of largest size and of fine quality; color deep, rich red; flesh firm and of fine flavor; a fine market variety; ripens two weeks later than Royal Ann.

Montmorency—Large, sour fruit, similar though larger than the Early Richmond; quite hardy. May.

May Duke—Medium size, dark red; flesh tender, juicy and sub-acid; an excellent variety, and one of the earliest of its class.

Bing—Originated in Oregon; fruit large, dark brown or black; very fine; late; a good shipping variety.

Kentish (Early Richmond)—Light red, juicy; one of the best acid cherries and unsurpassed for cooking purposes; very productive.

Tartarian—The very finest cherry to eat fresh. Large bright purplish black; flesh rich and very juicy. A vigorous erect tree bearing abundantly every year. Brings high prices in the fresh fruit markets because it comes in early. A good pollinator for the other sweet cherries we list and should be included in every planting. Early June.

## PRUNES

Unless otherwise priced	Each	Per 10	100
One year, 3 to 4 feet	\$0.50	\$3.00	\$20.00
One year, 4 to 6 feet	.50	4.00	30.00
Selected trees	75c-1.00		

Italian (Fallenberg)—Medium, oval tapering at both ends; dark purple; flesh greenish yellow; separates freely from the stone; best for drying. Most popular.

Improved Petite—Medium size, egg-shaped; violet purple; sweet, rich and sugary; very productive; good fresh and for drying.

Silver—Very large.

Hungarian—Very large, dark red.

Giant—The largest, dark crimson.

New Standard—(Burbank Production)—The trees are enormous and never failing bearers, and good, healthy growers. Well grown fruits measure four and a half inches around one way by nearly six inches the long way. Skin purple, with a heavy blue bloom; flesh amber or honey yellow, fine grained, juicy, yet firmer than most other drying prunes, very sweet and perfect freestone.

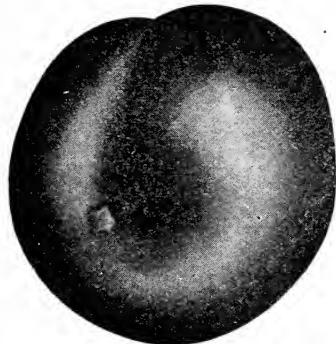
Sugar—Vigorous grower; fruit large and dries quickly; flesh tender and rich in sugar; color dark purple. August.

Early Violet—Medium; skin pale, shaded violet; flesh white; good. July.

## PLUMS

	Each	Per 10	100
Unless otherwise priced	\$0.75	\$6.00	\$35.00
One year, 3 to 4 feet	1.00	7.50	45.00
Selected trees	\$1.00-2.00		

**Prinlew**—A valuable new variety, produced by H. A. Lewis. A heavy and sure cropper. Plums of large size; skin yellow, overspread with bright red when fully ripe; a handsome looking plum and the rich, golden flesh is firm, but juicy; fine grained and most delicious of all, either raw or cooked. It's good as a peach. Stands handling and shipping well. Ripe in August. If you only have room for one plum, plant a Prinlew.



**Satsuma**—(Blood Plum)—Quite popular; large, dark red from skin to pit, which is small, firm and juicy; tree productive. Early July.

**Damson**—Shropshire—Medium size, dark purple; firm; flesh greenish, juicy and rich. Vigorous. Late September.

**Abundance**—Large, flesh yellow, early.

**Bradshaw**—Large, reddish, purple.

**Columbia**—Large, brownish, purple.

**Clyman**—Medium, mottled, reddish purple.

**Damson**—Small, skin purple, oval.

**Green Gage**—Small, round, green flesh.

**Peach**—Large, brownish red, flesh yellow.

**Reine Claude**—Large, greenish, marked red.

**Washington**—Large, dull yellow with crimson blush.

**Yellow Egg**—Large, deep golden yellow.

## QUINCE

One year old	\$1.00	each
Selected trees	1.25	each

**Orange**—Large golden.

**Champion**—Very large, bright yellow.

**Pineapple**—Flavor is suggestive of the pineapple; the fruit resembles the orange quince; making superior jelly; can be eaten raw and has a most exquisite and delicious flavor, not equaled by any other quince. September.

## CURRANTS

Low prices by the thousand.

Each 20c; 10 \$1.75; 100 \$12.50

**Perfection**—New; largest and most prolific currant; bright red, rich flavor, mild sub-acid; no currant can approach in yield or quality this wonderful new currant.

**Cherry**—Very large, deep red, fine for preserving; valuable market variety.

**Fay's Prolific**—Bright red, very sweet, stems longer than Cherry and fruit hangs on better than most varieties. To be planted with Cherry.

## GOOSEBERRIES

Each 20c; 10 \$1.75; 100 \$12.50

**Oregon Champion**—Berries large, round and pale green; fine for table use and pies, hardy, strong and a very prolific bearer; most popular and best commercial variety. Low prices by the thousand. Write.

## PEACHES

	Each	Per 10	100
Unless otherwise priced	\$0.75	\$6.00	Write
One year, 3 to 4 feet	1.00	8.00	Write



**J. H. Hale**—A valuable table, shipping and drying peach. Smooth skin, almost fuzzless. Very firm. Ships almost like an apple. Yellow freestone; flesh tender, excellent quality. Larger than the Elberta and ripening about the same period.

**Elberta**—Very large, bright yellow, red cheek; flesh yellow; juicy, sweet; regular bearer; fruit very showy and perfect; freestone; early.

**Early Crawford**—Very large, yellow; with red cheek; flesh sweet and excellent. Our most popular peach for table and canning; freestone.

**Late Crawford**—Very large, roundish; yellow, with dark red cheeks; flesh deep yellow, juicy and melting; flavor rich and excellent; very popular; valuable for canning and drying; freestone.

**Mayflower**—Beautiful red all over; extremely early; tree hardy and healthy. Last of June. Freestone.

**Tuscan Cling**—Very large; yellow, blushed red. Vigorous; strong grower. July, August.

## PEARS

	Each	Per 10	100
First Grade, 1 year, 4 to 6 feet	\$1.00	\$8.50	\$60.00
First Grade, 1 year, 3 to 4 feet	.75	6.50	45.00

F.O.B. Portland; if mailed, postage extra.

### AUTUMN VARIETIES



**Bartlett**—Large; skin thin, clear, lemon-yellow, with soft blush on the sunny side; flesh white, buttery, very juicy and highly flavored; the best summer pear in existence. August, September.

**Beurre Bosc**—Large, beautiful, russet; highly flavored; fine for shipping. September.

**Beurre D'Anjou**—Large, handsome, fine flavor; tree vigorous; heavy bearer; keeps till Christmas. September.

**Comice**—A splendid commercial variety, being of fine size; good appearance; ships well. October.

**Fall Butter**—A favorite fall pear; yellow, sweet and juicy. September.

**Flemish Beauty**—Large, beautiful, rich and sweet; pale yellow with slight russet. Adapted to Montana and the Northwest.

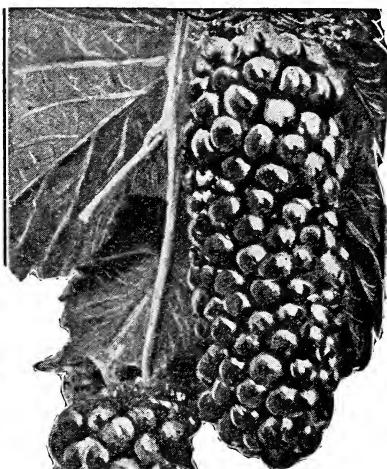
**Seckel**—Rich and highly flavored; its highly concentrated, spicy, honey flavor is unequalled; skin brownish green, russet brown cheek. September, October.

### WINTER VARIETIES

**P. Barry**—Fine keeper. Very large, juicy, fine grained, yellow. December, March.

**Winter Bartlett**—This fine pear originated in Eugene, Oregon. Fruit large, closely resembling the famous Bartlett.

**Winter Nellis**—Medium; skin yellowish green, dotted with gray russet; flesh yellowish white; fine grained, of a rich saccharine, aromatic flavor. December.



#### CORY THORNLESS BLACKBERRY

The berries often measure 2½ inches in length, have a small core and are almost seedless. The flavor is like the wild berry, but they are richer and sweeter than other blackberries, yet are acid enough to make the finest of jelly. No thorns, thereby easier and quicker picked, more productive, more profitable; of trailing nature. Plant eight feet apart in rows seven feet across.

##### Prices Cory Thornless Blackberry

Each, postpaid	\$0 .20
Per 10, prepaid	1.75
Per 100, prepaid	15.00

## BLACKBERRIES

**Lawton**—Fruit large, very productive, well and favorably known; Oregon's most popular kind.

**Evergreen**—An Oregon introduction; beautiful lacinated foliage, which it retains all winter; berries long, black, sweet, rich and delicious; ripens from July to November.

**Himalaya Giant**—An exceedingly strong, rampant grower of a trailing nature; everbearing; an enormous yielder. The berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor.

	Each	Per 10	100
Price	\$0.20	\$1.50	\$10.00

#### Iceberg, the White Blackberry

Strange as it may seem, this is a real creamy white Blackberry. Mixed with the jet black ones for dessert it makes a most wonderful dish. The fruit is about the size of Snyder with few seeds and quite sweet when fully ripe. The bushes are good strong growers and very productive. This is not a worthless novelty but a fruit of real value, and should be in every garden.

Price, 15c each; \$1.50 per dozen

## DEWBERRY

**Lucretia**—Fruit ripens between the raspberry and blackberry. Berries large, handsome, sweet and luscious; trailing vines. **STRONG PLANTS.** Each 25c; per doz. \$2.50; 100, \$12.50; 1000, price on request.

## LOGANBERRY

In great demand again for canning and drying. An exceedingly strong grower and an enormous bearer. Color dark red. Has a pleasant, vinous flavor, delicious and peculiar to this berry alone; fruit ripens early. It is excellent for the table, eaten raw or stewed, and for jelly, jam or "juices," is without an equal.

Transplants (2 year, extra strong)—Prices, each 25c; doz. \$2.25, postpaid. Not prepaid, each 20c; doz. \$2.00; 100, \$15.00.

## YELLOW RASPBERRIES

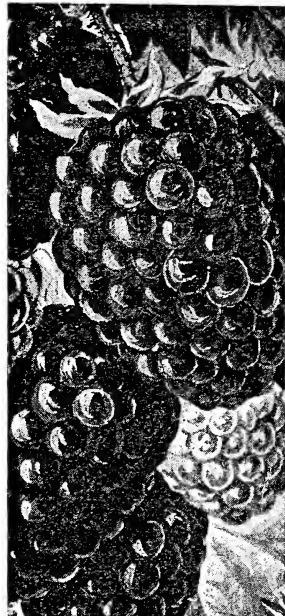
**Golden Queen**—A beautiful, large golden yellow berry, seedling of the Cuthbert and surpassing that variety in size, beauty, quality and adaptability. Canes hardy, of strongest growth, productive. Should be in every garden, its beauty and high quality placing it at the head for table use. By mail. Price, each, 15c; per 10, \$1.25, postpaid.

## YOUNGBERRY

Said to be a cross between the Loganberry and the Dewberry. An exceptionally fine flavored, very productive berry. Bears early and commands the highest market prices. The fruit colors well and is exceptionally sweet and large. Color, jet black. Ten plants of this variety will make a row eighty feet long, which will produce an astonishing amount of the finest berries you ever saw. They will be a delight to you and your friends.

They are very strong growers and should be trellised. A very simple trellis, consisting of two wires (the lower one 2½ feet from the ground and the upper wire about 4 feet) is all that is required. Plant eight feet apart in rows seven feet across. About 800 plants per acre.

Prices—Each, 20c; 10, \$1.75; 25, \$3.00; 50, \$5.00; 100, \$10.00.



Youngberry—Actual Size

## RED RASPBERRIES

**Cuthbert** ("Queen of the Market.")—A remarkably strong, hardy variety; standing the northern winter and southern summers equal to any. Very large, conical berries, so firm they can be shipped hundreds of miles by rail in good condition; flavor is sweet, rich and luscious. The leading market variety for main crop.

**Marlboro**—Very large and earlier than Cuthbert; beautiful, bright scarlet; good quality; hardy and productive.

Special low prices by the thousand. Write

	Each	Per 10	100
1 year	\$0.15	\$0.75	\$3.00

#### Red Raspberry—Everbearing

**La France** is a rapid, vigorous grower. The berries are firm, twice the size of most; beautiful color, fragrant and delicious in flavor all season long.

1 year —————— Each \$0.15; Per 10 \$1.25, Postpaid

#### St. Regis Raspberry—Everbearing

Fruit commences to ripen with the earliest and continuing on young canes until October, many quarts often being picked after the first snow fall. Berries bright crimson, large size, rich, sugary with full raspberry flavor. Flesh firm and meaty, a good shipper. Wonderfully prolific. Canes stocky, of strong growth, with abundance of dark green leathery foliage.

Each 15c; per 10, \$1.25, Postpaid

## Black Raspberries

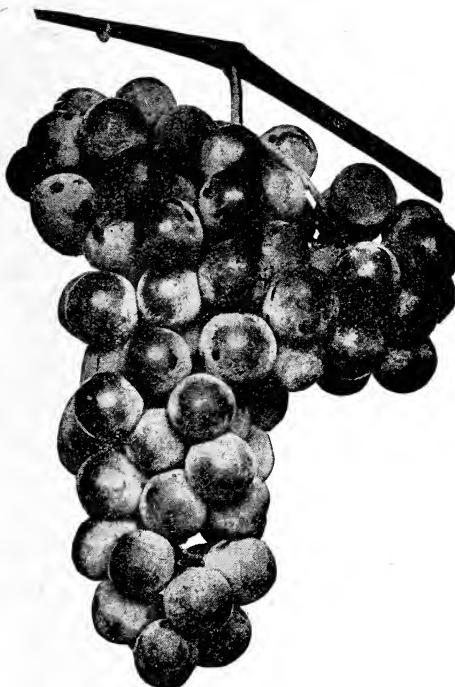
**Cumberland**—A healthy, vigorous grower, throwing up stout, stocky, well branched canes that produce immense crops. Fruit very profitable; large, firm, quality about same as Gregg, keeps and ships as well as any of the blacks. Mid-season.

**Gregg**—Of good size, fine quality, very productive and hardy. Takes same position among black caps as Cuthbert among the red sorts.

**Plum Farmer**—Large, black, hardy and productive. One of the very best.

Each	Per 10	100	
2 years	\$0.25	\$2.25	\$20.00
1 year	.20	1.50	12.50

# NUT TREES



## GRAPES

The grape is the easiest of all fruits to grow. The plants take little room, they thrive despite neglect and every year they produce their wealth of beautiful, health-giving fruit. With its roots in any old nook you can lead it away in any direction to provide a grateful shade for the pump, or for a restful seat, a border for a walk or climbing on the wall or house—East, West, North or South, on hill or in valley, on poor soil or rich, the grape grows, thrives, bears; it never disappoints. Plant a few vines or a large vineyard—make your own grape juice—jams, marmalades, jelly; and have plenty to eat fresh from your own vines.

One year old.....25c each, postpaid

**Brighton**—Bright red, heavily shouldered; large bunch; one of the sweetest and most delicious. Known everywhere. Ripens before Worden. It adapts itself to most any soil, is always productive; a good strong growing, hardy vine, should be planted with other sorts for pollination. Worden and Concord are ideal for this purpose.

**Campbell's Early**—Berries large, nearly round, black, with light purple bloom; flesh rather firm but tender; quality rich, sweet, slightly vinous; a strong and vigorous grower. August.

**Concord**—Large, black grape; bunches compact; berries round, sweet and pleasant. August.

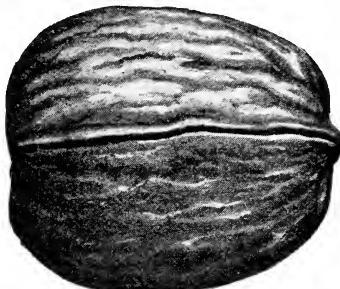
**Delaware**—One of the finest of our native grapes; grows freely and is perfectly hardy; ripens early; berries small, light red. August.

**Lucile**—Early red. A dark red grape, medium to large berry and bunch, excellent quality, keeps well and ships well. In vigor, health, hardiness, productiveness, it is surpassed by no other variety, and it is practically immune to fungous diseases. It is one of the most beautiful hardy grapes and it sells at high prices. Should be in every home vineyard.

**Moore's Early**—Bunch medium; berry large, resembling Concord, but more pulp and is earlier.

**Niagara**—Bunch medium; berry large, roundish, uniform; skin thin but tough; pale yellow; flesh tender and sweet; vine vigorous and productive; one of the best white grapes. September.

**Worden**—Bunch very large and compact; berry large, black; an improved Concord. Late August.



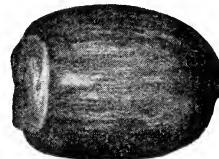
## GRAFTED WALNUTS

We offer a splendid strain of Franquettes, the best variety for this section, grafted on four-year California Black Walnut—sturdy, thrifty trees with big fibrous roots. The best to plant. Comes to bearing much younger than seedling walnut.

Trees one and two years from the graft on three and four-year-old roots:

These are all too large to be sent by parcel post.

Size	Each	Dozen lots	Hundred lots
8 to 10 feet.....	\$1.60	\$1.50	\$1.40
6 to 8 feet.....	1.40	1.30	1.20
4 to 6 feet.....	1.20	1.10	1.00



## FILBERTS

Plant more of them

**Barcelona**—Magnificent large nut from Spain, first quality; can be grown as low standard tree or bush. 2 to 3 feet. Each 75c; 10, \$5.00

**Du Chilly**—The largest Filbert on Pacific Coast. Nuts are broad, 1 inch by  $\frac{3}{4}$  of an inch; full fleshed and sweet; best grown as low standard. Special prices on large orders. Du Chilly is a good pollinator for Barcelona. 2 to 3 feet. Each 75c; 10, \$5.00

## ALMOND (Nut Bearing)

	Each	Per 10
3 to 5 feet.....	\$0.75	\$6.00

### I. X. L.

A vigorous grower and sure cropper, producing nuts of large size and handsome appearance; shell thin; most popular commercial.

## BUTTERNUT

A beautifully formed tree bearing a rough coated nut of most attractive flavor, well known to the middle West. Succeeds fairly well in the Pacific States. Price, each \$1.50

## CHESTNUT

	Each	Per 10
3 to 5 feet.....	\$0.75	\$6.00

**American Sweet**—Makes a handsome shade tree; full medium size, sweet and well flavored.

**Spanish**—A valuable species both for ornamental use and fruit. It forms a handsome lawn tree and produces much larger fruit than the average American variety.

## MAMMOTH JAPANESE

A variety we import from Japan; yields much the best and largest fruit.

## HICKORY

**Shellbark**—Popular Eastern variety; tree hardy but slow grower. Nuts medium size; very good. Quality excellent. 3 to 5 feet. Each \$2.00; 10, \$15.00

# DECIDUOUS SHRUBS

## Almond (*Prunus*)

Pink Flowering (*P. Japonica*)—Well known early dwarf shrub. Double clear pink little roses festoon the gracefully bending branches. Each \$1.50.

## Althea (Rose of Sharon)

Late summer blooming shrub that continues on up into the fall when color is scarce, bearing flowers that closely resemble the Hollyhocks in color and size. Colors pink, white or red. Each \$1.00.

## Azalea

**A. Mollis**—Low growing shrub that in the early spring is covered with gorgeous flowers before the leaves appear. Each \$2.50.

## Barberry

**Thunbergii**—A beautiful Japan variety of dwarf habit. Small foliage, changing to beautiful red in Autumn. Bright scarlet berries all winter. Each 60c, 75c and \$1.00.

## Buddleia (Butterfly Bush)

**Magnifica**—Lovely long spikes of lilac-colored flowers. Summer and Fall. Attracts butterflies. Small plant, 50c; large, 75c.

## Deutzias

**Lemoinei**—Flowers very large and produced in broad-based, cone-shaped heads of from 20 to 30 flowers each of purest white, 3 to 4 feet. 75c each.

**Pride of Rochester**—Flowers very early, double; pure white, tinged with blush; great profusion. Grows 6 to 8 feet. 75c each.

**Gracilis Rosea**—Dwarf growing with sprays of pretty light pink flowers late in the Spring. A beautiful shrub. 75c each.

## Forsythia (Golden Bells)

**Intermedia**—Blooms early in Spring, before the leaves appear, when it is covered with golden bell-like flowers, 2 to 3 feet. Each 60c to 75c.

**Fortunei**—Upright; makes fine single specimens; golden flowers in profusion in April. Each 60c to 75c.

## Hydrangea

**Paniculata Grandiflora**—Immense panicles of bloom, from July to November, creamy white, pink flush. Prune back in early Spring about half of previous year's growth. Hardy everywhere; good for cemetery planting. 2 to 3 feet, 75c; 3 to 4 feet, \$1.00.

**Otaksa**—One of the most popular lawn plants. The flowers run in shades of pink, blue and white, mineral in soil often changing them to two or three shades in one. Fine for shady places. Each 75c to \$1.50.

## Lilac (*Syringa Vulgaris*)

**Common Purple**—Very fragrant, an old favorite. 3 to 4 feet, 75c; 10, \$6.00.

**Common White**—Same as above, flowers white. 3 to 4 feet, 50c; 10, \$4.50.

## Mock Orange (*Philadelphus*)

**Grandiflora**—Flowers large; slender twig habit, 3 to 4 feet. Each 50c; 10, \$4.50.

**Hybrid**—2 to 3 feet, 50c.

## Quince

**Japonica (Japan Flowering)**—Blossoms vary from the richest scarlet to the most delicate blush color; the fruit is deliciously fragrant, but not edible. 2 to 3 feet. Each \$1.00.

## Snowball

**Common**—Flowers globular, pure white, in May. 3 to 4 feet. Each 75c.

**Japanese**—Flowers pure white, delicate large globular heads in May. 2 to 3 feet, \$1.00.

## Spiraea

Each 75c

**Spiraea Thunbergii**—Charming spiraea with graceful form and abundant blooms.

**Billard's (S. Billardi)**—Flowers red in dense spikes, blooms most of Summer.

**Van Houtte's Bridal Wreaths (S. Van Houetti)**—Very graceful; flowers white in round clusters. May.

**Crimson**—Anthony Waterer (S. Bumalda)—A most desirable variety, having deep red flowers.

## Weigelia

**Candida**—Flowers white, bush tall. 75c.

**Rosea**—Flowers light pink, shrub compact. 75c.

**Eva Rathke**—Flowers red, one of the best. Slightly dwarf. 75c.

**Variegated**—Leaves become silver white. 75c.

## EVERGREENS

### Araucaria

**Imbricata (Monkey Puzzle)**—A fine tree of regular pyramidal form; leaves bright green, overlapping each other; 8 to 10 in. \$1.00 each.

### Arborvitae

**American**—18 to 24 inches. Native, known as white cedar. Foliage bright green, yellow-green underneath; brown and bronze in winter. \$2.50 each.

**Golden**—Elegant; habit regular foliage tinged with gold in spring. \$3.00 each.

**American Variegated Pyramidal**—Foliage dark green. \$3.00 each.

### Cedrus

**Japanese Cedar (Cryptomeria Elegans)**—Beautiful delicate green foliage and graceful habit, color changing to reddish brown in winter. Price, \$1.00 to \$2.50 each.

**Deodar or Indian Cedar (C. Deodara)**—Very handsome; branches drooping; foliage silvery green. Very popular. Each \$2.50.

### Cypress (Cypresus)

**Allumii**—Handsome pyramid shaped conifer. Foliage greenish-blue. \$2.00 to \$3.00 each.

**Cypress Lawson's (Chamaceprais Lawsoniana)**—Graceful and conspicuous; branches horizontal, slightly pendulous; foliage dark green. \$1.00 to \$2.50 each.

**Italian**—Bright green. Very compact in growth, nothing finer in upright type. 2 to 3 ft., each \$2.50; 3 to 4 ft., \$3.00.

### Hemlock (Tsuga)

**Western (T. Hookeriana)**—Very beautiful and appealing; branches pendant and foliage deep green. Each \$2.50.

### Juniper (Juniperus)

**Irish (J. Communis Hibernica)**—Pyramidal in form, foliage silvery gray. Very striking. Each \$2.00.

### Retinospora

**Plumosa**—An exceedingly handsome, acorn-shaped evergreen of medium tall growth, from Japan, with feathery, light green, foliage. \$3.00 each.

**Squarrosa Veitchii**—Dense growth; soft beautiful silvery blue foliage, arranged in spirals which gives the impression of boiling over. \$3.00 each.

### Spruce (Picea)

**Norway (P. Excelsa)**—A lofty, rapid grower; branches drooping. Fine for hedge or wind-break. \$1.00 to \$2.00 each.

**Colorado (Pungens)**—The original form of the famous Blue Spruce; foliage sometimes quite blue, mostly light green. A vigorous grower and hardy, making fine specimens in a broad based, sharply defined pyramid form; foliage rigidly angular with sharp needles very densely set. \$3.50 each.

**SPECIAL**—We will send you three nice Evergreen Shrubs of three varieties our selection for \$2.00; regular price \$4.00 and over. We need the room and as long as we have them they are yours. Too large to be sent by parcel post, but should be sent by express or freight. Order now before stock is sold.

# BROAD LEAVED EVERGREEN TREES AND SHRUBS

## Abelia

A beautiful, low-growing, bushy, small-leaved evergreen, with dark green, glossy leaves, bearing small clusters of beautiful pink to white flowers from June until late fall. Very popular. Nice plants \$1.00; specimens, \$1.50 to \$2.50.

## Aucuba

*Japonica*—Japan evergreen, with shining foliage and red berries. Each \$1.00 and up.

*Japonica Variegata*—Green and yellow foliage; very showy; Large plants for immediate effect. Each \$2.00 to \$3.00.

## Boxwood (Buxus)

*Pyramidal Boxwood*—Cone shaped plant of great beauty; 2 to 2½ feet, each \$5.00; 2½ to 3½ feet, each \$6.00.

*Globe Boxwood*—Trimmed in shape of a globe. Each \$2.50 to \$5.00.

*Boxwoods for Hedges and Borders*—Write for prices on quantity desired.

## Broom

*Scotch*—Branches drooping covered in spring with bright yellow flowers, 3 to 4 feet. \$1.25.

*White Flowering*—Same as Scotch; flowers white, 3 to 4 feet, \$1.00.

*Spanish*—Upright, branches leafless, superior to Scotch. Blooms continuously throughout the summer. 3 to 4 feet, 75c.

## Camellia

*Camellia*—Small trees with shining waxy leaves, and beautiful waxy flowers, very much resembling a small rose. We are only able to offer these in assorted colors, 1½ feet high, each \$2.50. A nice plant for \$1.50.

## Daphne (Odora)

Japanese shrub with waxy light green foliage, pink and white flowers in early spring of wonderful fragrance. Well rooted. No color guarantee. Each \$2.00 to \$3.50.

## Cotoneaster

*C. Horizontalis (Trailing Cotoneaster)*—Low growing with horizontal branches, dark green leaves. Fruit bright red. Each \$1.50.

*C. Franchetti*—A large sized shrub of graceful droopy habit, covered with a mass of red berries in Fall. Each 75c to \$1.50.

*C. Simonsii*—A pretty shrub of upright growth, bright leaves and white pinkish flowers, covered with large red berries all winter. Fine for massing. Each 75c to \$2.00.

## Holly (Ilex)

*English (Aquifolia)*—Prickly, dark green foliage; grows moderately fast, covered during the Winter months with bright red berries. Prices: Berry-bearing trees, per foot, \$1.00; nice trees, \$2.50 to \$6.00; ordinary stock, per foot, 75c; nice trees, \$1.50 to \$3.00.

## Laurel

*English*—Handsome, large-leaved, shining foliage. Excellent for large hedges or screens or as single specimens. Each 35c to \$2.00. Extra large, \$3.00 to \$5.00.

## Laurustinus

Luxuriant dark green foliage, with clusters of small white flowers in Winter. 1 to 2 feet. Each \$1.00 and up.

## Lonicera

*Nitida (Evergreen Bush Honeysuckle)*—New evergreen shrub, slender branches with bright glossy foliage. Excellent for massing or tub plant. There is no better evergreen shrub for the price. Each \$1.00 to \$1.50. Trimmed pyramidal shape, \$2.50.

## Oregon Grape

*Mahonia Aquifolia*—Official flower for the state of Oregon. Each 75c to \$2.00.

## Portugal Laurel

Beautiful slow growing laurel, dark green glossy leaves, small, very compact, 18 to 24 in., each \$2.00; 24 to 30 in., each \$3.00.

## Privit (Ligustrum Ovalifolium)

*Golden Privit*—Beautiful variegated shrub to plant among evergreens, giving a wonderful effect. 2 ft., each \$1.00 to \$1.50.

*California Privit*—Our best plant for hedges. Plant in double row 2 ft. apart, 5 in. between plants. 18 to 24 in., 10 plants, \$2.00; 100, write for price. 24 to 30 in., 10 plants, \$2.25; 100, write for price.

## Pyracantha

*Evergreen Thorn*—Tall growing, long narrow green leaves, small, white flowers, followed by orange berries all winter. We have orange-scarlet and orange-yellow berried plants. Each 75c to \$1.50.

## Veronica

These are dwarf shrubs of rather recent introduction, but coming into great favor in landscape planting. They are from 10 inches to 3 feet in height, with small evergreen foliage and white, pink and red flowers. Price 75c to \$2.00.

*Buxifolia*—Very dwarf growth, light green foliage. 75c to \$1.00 each.

*Cupressoides*—Grows to 3 feet. Fine foliage, resembling a conifer.

*Glaucophylla*—With pointed leaves of a glaucus color, 2 feet.

*Traversii*—The best known variety. White flowers.

## Ornamentals—Shade Trees

Trees 6 to 8 feet and about 1 in. Caliper unless otherwise stated.

ASH, White .....	\$1.50
BIRCH, Eup. ....	2.00
BIRCH, Cut-leaf, 4 to 6 feet....	2.50
BOXELDER, Sil., 4 to 6 feet.....	2.00
CATALPA, West .....	1.50
CATALPA, Um., 5 to 6 feet.....	3.00
CHERRY, Japanese Flg., 3 to 5 feet.....	1.50
CRAB, Bechtel Dble, 3 to 4 feet.....	1.25
CRAB, Scheidecker, 3 to 4 feet.....	1.50
DOGWOOD, Pacific .....	1.50
ELM, American .....	1.50
ELM, English .....	1.50
GOLDENCHAIN (Laburnam) .....	1.50
HORSECHESTNUT .....	2.00
LINDEN, 4 to 6 feet .....	2.00
(American or European) .....	
LOCUST, Com. Blk. ....	1.00
LOCUST, Honey .....	1.00
MAIDENHAIR TREE, 3 to 5 feet .....	1.00
MAPLE, Oregon .....	1.50
MAPLE, Norway .....	1.50
MAPLE, Silver .....	1.50
MAPLE, Sycamore .....	1.50
MAPLE, Sugar .....	1.50
MOUNTAIN ASH, Eup., 5 to 6 feet .....	1.25
MULBERRY, Russian .....	1.00
OAK, Common Red, 8 to 10 feet .....	2.00
OAK, English .....	2.00
OAK, Pin .....	2.00
OLIVE, Russian, 3 to 4 feet .....	1.00
PLUM, Dbl. Flg. ....	1.50
PLUM, Purp. Leaf, 3 year .....	1.50
PLUM, Purp. Leaf, 1 year .....	1.00
PERSIMMON, Jap., 5 to 6 ft. ....	1.50
POPLAR, Balm of Gilead .....	1.50
POPLAR, Carolina .....	1.00
POPLAR, Lombardy .....	1.25
POPLAR, Silver .....	1.50
PLANE, Tree (Sycamore) .....	1.50
THORN, White .....	2.00
THORN, Red .....	3.25
TULIP, Tree, 3 to 4 feet .....	1.00
WILLOW, Babylon, 4 to 6 feet .....	1.75
WILLOW, Golden .....	2.00
WILLOW, Wisconsin .....	1.50

# FERTILIZERS

## Pulverized Sheep Manure

The Fertilizer for Lawns, Golf Greens, Flower Beds, Window Boxes, House Plants, Trees, Seed Beds in Nurseries and the Garden

GROZ-IT Pulverized Sheep Manure has no rival:

This we guarantee to contain plant food as follows:

Nitrogen 1.84 As Ammonia.....	2.25
Water Soluble Potash K-2 O .....	3.00
Total Phosphoric Acid .....	1.25
Available Phosphoric Acid .....	0.75

### PRICE

10 lbs. ....	30c	50 lbs. ....	\$ .75
25 lbs. ....	60c	100 lbs. ....	1.50

Per Ton, \$25.00

These prices are F. O. B. Portland.

## PURE BONE MEAL

Pure Ground Bone, fine ground, is one of the best fertilizers. This is the only grade of Ground Bone we sell, and is all pure bone, reduced by improved machinery to an even fineness—nothing is added, and is free from any adulterant. This is a very valuable enricher of the soil. Per lb., 5c; 100 lbs., \$3.00.

We also carry in stock and would be pleased to quote prices on

BLOOD MEAL  
NITRATE OF SODA  
SULPHATE OF AMMONIA  
SUPERPHOSPHATE  
LAND PLASTER  
MURIATE OF POTASH  
SULPHATE OF POTASH  
LIME, Etc.

## MORCROP

There is a MORCROP Fertilizer for every crop and soil condition

### MORCROP—LUX 5-6-8

High in both Nitrogen and Potash. Especially useful on many Truck Crops, Hops, Berries and Tree Fruits.  
Per 100 lb. sack \$3.00

### MORCROP—M 3-10-10

Good for Potatoes, Cherries and Pears and on any soil lacking Potash.  
Per 100 lb. sack \$3.00

### GARDEN—MORCROP 5-10-5

For Flower and Vegetable Gardens, Shrubbery, Lawns, Window Boxes, etc. Rich in all plant foods and humus. Improves the condition of soils. Holds moisture in hot weather. More bulky than other fertilizers. Small pkg. 35c; large pkg. 65c; small sack (30 lbs.) \$2.00; large sack (60 lbs.) \$3.50.

### LAWN—MORCROP 6-1-1

Made especially to make and keep lawns green and in healthy growing condition. Detrimental to weeds.  
Per 50 lb. sack \$1.75

### PLUS—MORCROP 1-10-15

This is the fertilizer for Bulbs, Onions, etc., and for use on Peat lands.  
Per 100 lb. sack \$3.50

The figures following the names indicate Nitrogen, Phosphates and Potash in the order named.

## MORCROP TABLETS for Milady's Houseplants

Highly concentrated, complete fertilizer in tablet form for convenient application. Odorless, clean and quickly water soluble. The action is rapid and both foliage and bloom is improved. Equally effective in the garden.

Package 10c, Postpaid

FEED THE SOIL AND  
IT WILL FEED YOU

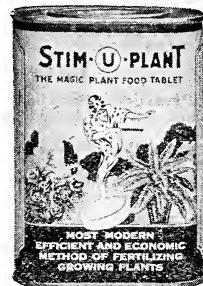
## VIGORO

Specially prepared plant food

100-lb. bag.....	\$6.00
50-lb. bag.....	3.75
25-lb. bag.....	2.00
5-lb. bag.....	.60
12-oz. pkg.....	.10

Not prepaid

## STIM-U-PLANT



A highly concentrated odorless fertilizer for the vegetable and flower garden, shrubs and house plants. The analysis is guaranteed 11 per cent nitrogen, 12 per cent phosphoric acid, 15 per cent potash, an ample amount of each plant food to insure a quick and strong growth of all plants.

30-tablet pkg. 25c; 100-tablet pkg. 75c; 1000-tablet pkg. \$3.50, postpaid.

## STIMUGERM LEGUME INOCULATION

Cut Down Your Fertilizer Bills  
Get Your Nitrogen from the Air

Nitrogen is the most expensive ingredient in the fertilizers you buy, although it is plentiful in the air. When legume crops are inoculated with STIMUGERM this nitrogen is stored in nodules on the roots.

Increases the yield and improves the quality of the crop on which it is used.

**Legume Inoculation** It adds to the nitrogen supply in your soil—nitrogen is the most expensive ingredient in the fertilizers you buy. Its use gives quicker growth and earlier maturity.

It increases the permanent value of your farm.

### ORDER BY NUMBER

No. 1. For Red, Mammoth, Alsike, Crimson and White Clovers.

No. 2. For Alfalfa, Sweet and Bur Clovers.  
Price Nos. 1 and 2—1/4 bu. size 40c; 1/2 bu. size 65c; 1 bu. size \$1.00; 2 1/2 bu. size \$2.25; 10 bu. size \$8.00.

No. 3. For Vetch, Canada Field Peas, Garden Peas and Sweet Peas.

No. 7. For Cow Peas, Peanuts, Velvet Beans and Lima Beans.

No. 8. For Garden Beans and Navy Beans.

No. 9. For Soy or Soja Beans.

Price Nos. 3, 7, 8 and 9—1/2 bu. size 40c; 1 bu. size 65c; 5 bu. size \$2.25.

## SPECIAL

## STIMUGERM

LEGUME INOCULATION

A special garden size for peas, beans and sweet peas. Will insure you large, luscious peas and beans, and abundant sweet pea blossoms for gorgeous coloring. Price 25c

### FERTILIZERS

#### Uses of Main Plant Foods

**Nitrogen.**—Promotes leaf and stem growth; increases proportion stalk to fruit, and hastens blooming. An excessive amount delays maturity.

**Phosphoric Acid.**—Stimulates early root formation; gives vigorous start to plants; increases ratio fruit to stalk; improves quality of fruit and hastens maturity of crop.

**Potash.**—Is important in sugar and starch formation; gives stiffness to stalk; helps plants to resist disease, and improves quality of fruit.



*Paints  
and also  
Disinfects  
Dries White*

# ARBOLA

The Disinfecting White Paint

## THE POWDER OF MANY USES

Send for Carbola Circular

### Use CARBOLA Instead of Whitewash

Carbola is a white paint in powder form combined with a disinfectant many times stronger than pure carbolic acid. It is non-poisonous and non-caustic. It kills lice, mites, fly eggs, etc., and helps prevent the start and spread of contagious diseases that affect man, beast, and fowl. Carbola is two things in one—a paint that disinfects or a disinfectant that paints. It dries a clear snow white. It saves labor, time and money. It paints and disinfects at one operation in the same time and with the same labor required to paint or disinfect only.

The postpaid prices apply only to the 1st, 2nd and 3rd zones

5-pound pkg.	Postpaid	\$0.75
10 pounds (10 gal.)	Postpaid	1.50
20 pounds (20 gal.)	Postpaid	3.00
50 pounds (50 gal.)	Prepaid	6.25
200-pound bags	Prepaid	22.00

### "EVER GREEN"

#### Non-Poisonous Insecticide

##### Sure Death to Plant Insects— Harmless to Man, Birds and Animals

A sure killer of most plant insects—and yet offers no poison whatever to human beings, livestock or birds—it is positively not a poison. The active principle is Pyrethrum, or insect flowers, which has this valuable property of being deadly to nearly all insects. Especially recommended for killing Cut Worms, Cabbage Worms, Green Flies, White Flies, Thrips, Leaf Hoppers, Currant Worms, Aphis, Rose Chafer, Rose Slugs, Pear Slugs, Mealy Bugs, Mites, Red Spiders, Japanese Beetles, Leaf Tiers, Potato Beetles, Squash Beetles (Stink Bugs), Aster Beetles, Bean Beetles, Cucumber Beetles, Ants, Plant Lice, Melon Bugs.

##### PRICES NOT POSTPAID

1 oz. bottle	35c	6 oz. bottle	\$1.00
16 oz. bottle	\$2.00	32 oz. bottle	\$3.50
1 gal. bottle	\$13.00		



### HAMMOND'S GRAPE DUST



To prevent mildew on roses, grapes and gooseberries.

5-lb. pkg. \$1.00, postpaid \$1.15.

### PARIS GREEN

**Directions for use:** Four to six ounces to fifty gallons of water. Or two teaspoonsfuls to one gallon of water. For cut worms and grasshoppers add one tablespoonful of Paris Green to ten pounds of bran and spread about the base of the plants. It is always well to add  $\frac{1}{4}$  lb. Paris Green to each barrel of Bordeaux when spraying tomatoes. Write for price. Cannot be sent by mail.

### "BLACK LEAF 40"

1 oz., 6 gals. spray.....	\$0.35
5 oz., 25 to 100 gals. spray.....	1.00
2 lb., 150 to 500 gals. spray.....	3.75
5 lb. ....	7.00
10 lb., 800 to 2500 gals. spray.....	11.85

Cannot be mailed.

### NICO-FUME

The purest and most refined nicotine product offered for spraying, vaporizing and fumigation in Green Houses. Our Florists like Nico-Fume better than other preparations.

Nico-Fume Liquid for spraying or vaporizing: 1-lb. tin, \$2.00; 4-lb. tin, \$5.85; 8 lbs. (gal.), \$10.85; (Cannot be mailed.)

### "NICO-FUME" TOBACCO POWDER

Tobacco powder impregnated with a high strength nicotine solution. Effective for fumigating in greenhouses to destroy Aphids, Thrips, etc. Fill 2½-inch flower pot heaping full of "Nico-Fume" Powder, pour powder out on ground or cement walk in a narrow pile about 7 inches long and light. Use a pile to each 5000 cubic feet of air space. Place piles equal distance apart. 1-lb. can \$1.00; 5 lb. can \$3.50; 10-lb. can \$6.15. F. O. B. Portland.

**TOBACCO DUST**—High grade. 1 lb., 15c; 10 lbs., \$1.25. F. O. B. Portland.

### WHALE OIL SOAP (Fish Oil)

This is not only an excellent insecticide for killing plant lice and fungus growth, but should be mixed with most all liquid sprays as it causes the spray to adhere much better to the leaves. 1 lb., 25c. Write for quantity price.

### FUNGI-BORDO (Bordeaux Mixture)

In powdered form, mixes perfectly with cold water. For peach, tomato and potato blight all fungus diseases. Write for price.

### BLUE STONE

#### (Sulphate of Copper)

Applied in time it will prevent mildew and all fungus diseases. Also prevents smut on barley and wheat, by soaking seed to be planted in a solution of 1 lb. to 6 gallons of water for ten or fifteen minutes. May be sent by parcel post. Write for price.

## NEW DISCOVERY—DUST IT!

**In Flower Gardens.** CARBOLA is an extremely effective remedy for fighting bugs and worms on rose bushes, chrysanthemums, flowers, shrubbery and plants of all kinds. Dusting with CARBOLA insures large blooms free from insects. Nowhere are the beneficial results of CARBOLA more quickly apparent than in the flower garden.

**CARBOLA** is also recommended for painting tree trunks of fruit and ornamental trees to keep off bugs and worms.

**In Vegetable Gardens.** CARBOLA has been found very effective for ridding plants and vegetables of bugs and worms. It is especially recommended for the cabbage worm, squash bug, cucumber worm, aphis fly, potato bug and other destructive insects that infest vegetables and berry and fruit bearing trees. Dust the CARBOLA early in the morning while the dew is on.

### SULPHUR

#### For Dry Dusting of Trees, Vines, Etc., Bleaching Fruit, etc.

It has been proven and so recommended by the University of California that if you sulphur your grape vines and orchards six times they will not be affected by Mildew or Red Spiders and rust. Write for price.

### SULPHUR CANDLES

These will burn for 3 hours and are fine for fumigating hen houses and dog kennels, killing all vermin. Price: 15c each, postpaid

## PEAT MOSS

### NATURE'S SOIL IMPROVER

The ideal all year rose mulch. Large bale of 8 bushels.

**PEAT** Makes Poor Soil Good and Good Soil Better.



### GAS BALLS—For Gophers or Moles

For the extermination of Ground Squirrels, Gophers, Prairie Dogs and Moles.

#### SAFE—SURE—ECONOMICAL

Will not explode. Do not deteriorate. No danger to Live Stock, Domestic Fowls or Wild Game.

Hold the exterminator in mouth of squirrel's burrow, light the sharp edge with torch or match, after the ball is ignited and burning freely roll it as far as possible into the burrow. Cover the hole with clod of dirt, then with enough fine dirt to seal tightly so that none of the gas fumes can escape. Throw no fine dirt on the burning ball. Each 5c; doz. 40c, postpaid.

### WOOD-LARK SQUIRREL AND GOPHER POISON

Ready for Instant Use—Never Fails

Is guaranteed the most reliable and destructive agent yet devised for the extermination of squirrels, sage rats, prairie dogs, pocket gopher, field mice and crows. Every kernel is warranted to kill. We will cheerfully refund the purchase price in every case in which it fails to satisfy. Should be used early in the Spring, when green food is scarce. Place a few kernels near the burrowing place of the animals. Care should be used in placing it so as not to destroy song birds. Price: 1-lb cans, each 50c. Cannot be mailed.

### Naphthalene

For Use in Treating Soil for Insect Pests

Used by truck gardeners, bulb growers and for field crops to drive away grubs, wire worms, slugs, centipedes, aphids, etc. Safest, most powerful insect repellent that can be used in quantities at low price. In granulated form, with strong odor like moth balls. Has been used in Europe for years. Drives off caterpillars, stupefies insects. Use it mixed in the soil according to directions. Send for full information.

Prices: 1-lb. can 25c; 5 lbs. 75c; 10 lbs. \$1.25; 25 lbs. \$2.25; 50 lbs. \$4.00; 100 lbs. \$7.50; F. O. B. Portland.

### Dust with Pomo-Green

The Leaf-green Dust

An Easy, Effective Way to  
PROTECT YOUR ROSES

and other Flowering Plants Against Insects  
and Fungus Diseases Without Making the  
Treatment Conspicuous

Dusting with "leaf-green" Pomo-Green is the protective method used by experts! Best for your garden, too. Pomo-Green is the celebrated Massey Dust made more toxic and colored green.

Roses—Black Spot, Mildew or Chewing Insects are bound to appear. Pomo-Green prevents and controls these insects and diseases quickly and effectively.

Flowering Plants—Pomo-Green is a specific for the control of Snapdragons Rust, Carnation Rust, Sweet Pea Mildew, Phlox Mildew, Lilac Mildew and many other fungus diseases of flowering plants and shrubs.

Protect new growth by dusting with Pomo-Green once each week throughout the growing season.

1-lb. can, 50c; 5-lb. carton, \$2.00. Cannot be mailed.

### DRY LIME SULFUR

Controls all scale and fungus diseases for which Lime-Sulphur Solution is recommended. More convenient to handle and saves freight on water. Put up in air-tight packages, which should be used when opened. For Winter Spray use 10 to 14 pounds to fifty gallons of water. For summer, in combination with Arsenate of Lead, use 2 to 3 pounds to fifty gallons of water.

Price: 1 lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.00; 25 lbs., \$3.75; 100 lbs., \$12.50. F. O. B. Portland.

### MAGGOTBATE

You Can Control Root Maggot

Easily applied, inexpensive, not harmful to plant life; but a valuable fertilizer and stimulant in powder form. Absolutely protects cabbage, radishes, turnips, onions, etc.

Price: 2-lb. carton, 25c; 25-lb. bag, \$2.25; postage extra.

### FORMALDEHYDE

Treat Your Seed With Formaldehyde

A preventive for smut in grain—scab and fungus diseases of potatoes.

Prices: Pints, 60c; quarts, \$1.00; express or freight at purchaser's expense; cannot be mailed.



### VEGETABLE SPRAY

A Successful  
Remedy  
for  
Cabbage  
Maggot

For destroying and preventing maggots, grubs and worms that infest turnips, radishes, beets, rutabagas, cabbage and cauliflower, etc., also recommended for combating crown borers in strawberries.  $\frac{1}{2}$  pt. 50c; pt. 75c; qt. \$1.25; gal. \$2.75.

### ARSENATE OF LEAD (Dry)

Write for Price

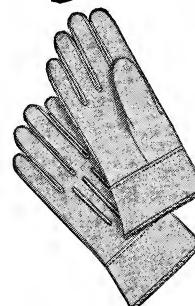


Lice, Slugs, Sow Bugs, Mexican Bean Beetle, Army Worm, and it is also strongly impregnated with fungicides.

5-lb. package, 75c, postpaid for 90c.

HAMMOND'S  
SLUG SHOT —  
Used from Ocean to  
Ocean. A light,  
composite, fine powder,  
easily distributed either by dusters,  
bellows, or in  
water by spraying.  
Thoroughly reliable  
in killing Currant  
Worms, Potato  
Bugs, Cabbage  
Worms, Chicken  
Worms, Black  
Ants, and other  
garden pests.

### National Eazy Wear Garden Gloves



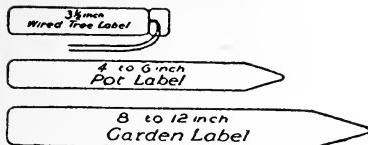
ALL-LEATHER  
Soft as Kid  
Easy to Wear

Made from special imported  
hides processed to render  
them amazingly soft and  
pliable. Permit almost bare  
hand freedom yet provide  
complete all-leather protection.  
Ideal for garden and  
similar uses.

Dirt-proof  
Durable - Washable

Four sizes: "SMALL" and "MEDIUM" for Women,  
"MEDIUM" and "LARGE" size for Men. Price, 75c a  
pair—2 pairs for \$1.40. This is the first time we have  
ever offered an all-leather garden glove with these  
special qualities at such a low price.

## LABELS



## TREE LABELS

Copper Wired and Painted

3 1/2 inch—35¢ per 100, \$2.90 per 1000

## LABELS, Wood, for pot and garden plants

Size	100	1000	Size	100	1000
4 x 5/8 in.	\$0.30	\$2.00	8 x 7/8 in.	\$1.25	\$8.00
4 1/2 x 5/8 in.	.35	2.50	10 x 5/8 in.	1.50	9.00
5 x 5/8 in.	.40	2.75	10 x 7/8 in.	1.75	10.50
6 x 5/8 in.	.50	3.25	12 x 1 1/8 in.	2.25	13.50

## STAKES, Bamboo

Dyed Green, very fine for staking delphinium, hardy chrysanthemums, gladiolus, etc.

Length	Doz.	100	1000	Length	Doz.	100	1000
18 in.....	.....	\$0.15	\$0.65	36 in.....	.....	\$0.30	\$1.25
24 in.....	.20	.85	5.75	42 in.....	.35	1.50	8.50
30 in.....	.25	1.10	6.50	48 in.....	.40	1.75	9.50

## STAKES, Round

Painted green. A good, strong stake.

3 feet.....	4 each	\$0.40	doz.
4 feet.....	5c each,	.50	doz.
5 feet.....	8c each,	.80	doz.
6 feet.....	11c each,	1.10	doz.
7 feet.....	13c each,	1.30	doz.
8 feet.....	16c each,	1.60	doz.

The GOODWIN  
Grass ShearsPrice—No. 10, \$1.75;  
No. 20, \$1.25, post-  
paid.

## Raffia

Natural color, for 50¢ per lb.  
nursery and garden work, also used for Postpaid  
making baskets.

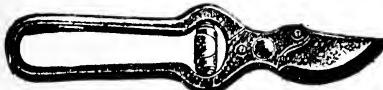
## GRAFTING WAX

A high-grade preparation. Easy to handle. For  
pruning or grafting or for covering fresh cuts. 1/4 lb  
15¢; 1/2-lb 30¢; lb 50¢.

## FEENEY DUST GUN

The dust cloud from a Model B Duster covers every surface of the thing that is to be dusted—top, sides, underside and all—hunts every crack and crevice—nothing escapes being treated—it does the job completely.

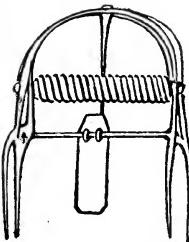
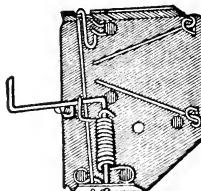
Price \$1.25



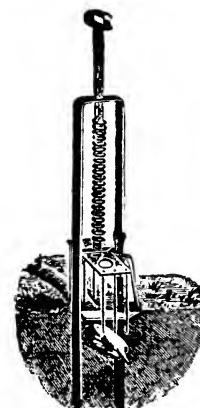
No. V-12—PRUNING SHEAR, \$1.00 postpaid

No. 2—PRUNING SAW, 18-inch, each, postpaid \$1.75  
No. 3—PRUNING SAW, 16-inch, each, postpaid 1.50ADJUSTABLE  
NOZZLE

Each, 75¢

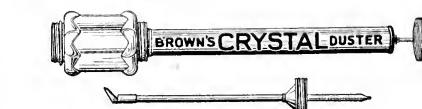
OUT OF SIGHT  
MOLE TRAPThe Trap That Holds  
CAN'T PULL OUT  
CAN'T TWIST OUT  
CAN'T GNAW  
FREEThe Best Mole Trap  
Made  
\$1.25, PostpaidCINCH GOPHER  
TRAP

Fits the hole, a sure killer, and the most satisfactory trap. Weight, 1 pound. Price, each, 75¢, postpaid.

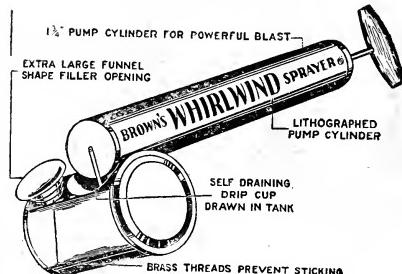
REDDICK MOLE TRAP  
No Mole Can Pass Under  
It and Live

These traps are strong and durable and worth the price to anyone troubled by moles.

Price \$1.00 each, postpaid

THE ACME MOLE TRAP  
is one of the most effective  
mole traps. Easily set, small,  
safe and sure.CME''  
MOLE TRAP Postpaid \$2.00Brown's Crystal Duster, tin cylinder, glass container,  
extension. Capacity, 1 quart. \$1.35

## BROWN'S WHIRLWIND

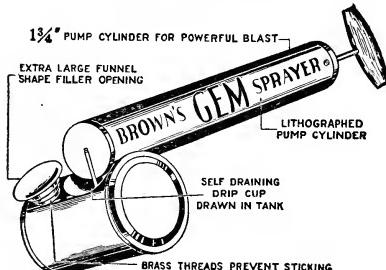


Brown's Whirlwind is a strong, well built single acting atomizer, made of heavy lithographed tin. The brass filler thread feature of this Sprayer eliminates the corrosion in screw cap which makes this type of sprayer undesirable. Capacity, 1 quart.  
Brown's Whirlwind, all tin, priced at, postpaid.....60c



Brown's Twin Blast is one of the best single action atomizers on the market. It is equipped with twin spray jets which diffuse a large volume of fine misty spray. This Sprayer has our new feature—the glass tank which enables the operator to know exactly how much liquid is in the container and because it is more easily cleaned, makes possible the spraying of different solutions. Capacity, 1 quart.  
Brown's Twin Blast, tin cylinder, glass container.....80c

## BROWN'S GEM



This Sprayer is very useful for spraying household insecticides, household disinfectants, etc., in small quantities. The capacity of this Sprayer is  $\frac{1}{2}$  pint and is made of heavy tin, the pump cylinder being lithographed. It has a self-draining drip cup which returns the drip to the container and has brass filler thread which prevents sticking of screw cap.  
Brown's Gem, all tin, each.....50c

## AUTO-SPRAY No. 5



The Auto-Spray No. 5 is a double acting high pressure sprayer that can be used with any pail or bucket. It is generally acknowledged to be the most powerful pump of its type manufactured. Generates a pressure of over 200 pounds with remarkable ease. Throws a continuous spray on both the up and down stroke, and requires about one-half the labor of other pumps of this type. This pump is made of solid brass and is equipped with an extension strainer, and suction hose. This pump is equipped with extra nozzle caps to give both fine spray and long distance spray for spraying trees from the ground. Price \$4.50.

AUTO-SPRAY No. 26  
IT SPRAYS CONTINUOUSLY

The Auto-Spray No. 26 is so designed that the pressure generated on the down stroke of the plunger allows this sprayer to produce a continuous mist-like spray. This is a decided advantage over ordinary atomizers, which are intermittent, in that spraying can be done more rapidly and with less exertion. This sprayer has a number of advantages which other Atomizers lack. Note the two nozzle caps yoked together to prevent loss, one straight and one angular.

The ball valve, which prevents this stored up compressed air from returning into the pump cylinder, is conveniently located in a brass valve seat, fastened stationary in the end of the pump cylinder, and readily cleaned or replaced. By removing the tank from this sprayer, the siphon tube can be easily and quickly cleaned.

Auto-Spray No. 26A, 1 quart all tin.....\$ .85  
Auto-Spray No. 26B, 1 quart tin pump, brass tank 1.25  
Auto-Spray No. 26C, 1 quart all brass.....1.50

## AUTO-SPRAY No. 26-AG



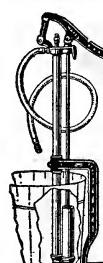
There are many reasons why a glass tank on a continuous atomizer is advantageous. It can be easily cleaned when a different type of solution is to be sprayed. The operator can always tell how much liquid is in the sprayer. A long felt demand for a continuous atomizer with a glass tank prompted us to build this sprayer. The jar on this sprayer has a standard Mason fruit jar thread. Additional jars are easily obtainable. This atomizer has all the mechanical advantages of the Auto-Spray No. 26-A, B and C with the added advantage of the glass tank. We forecast the Auto-Spray No. 26-AG will eventually be the most popular continuous atomizer on the market. Capacity one quart. Price \$1.30.

## BUCKET SPRAYER No. 261

A very effective sprayer for home and garden use. This sprayer is double acting, discharging spray on both up and down strokes, giving continuous spray. Constructed with large brass air chamber, which cushions force of solution pumped and maintains uniform pressure. Equipped complete with hose, discs for fine or coarse spray and extra solid stream cap. For all spraying purposes.  
No. 261 .....Price \$5.00



## BUCKET SPRAYER No. 231



A single stroke sprayer, especially popular. All working parts are brass, not subject to corrosion. Solid bronze ball valves, malleable iron foot rest. Made of tested materials. Develops strong pressure, easy working, long lasting.

Completely equipped with hose, discs for fine or coarse spray and extra solid stream cap. Suitable for few fruit trees, vegetable and flower gardens, disinfectants and whitewash.

No. 231 .....Price \$5.00

**AUTO SPRAY No. 9**

The Auto Spray No. 9 is a durable, well-built machine. This Sprayer, due to its ease of operation, is one of the most popular large compressed air sprayers on the market. Corrugated tank is constructed of heavy sheet brass or strong copper bearing galvanized steel sheet. Pump cylinder is one-piece seamless brass tube. The features of this Sprayer are the corrugated tank, screw lock, drain dry, Non-Clog spray nozzle. This Sprayer can be used for spraying trees, shrubs, gardens, chicken houses, etc. Capacity—four gallons.

Auto-Spray No. 9-B, Brass Tank, priced at ..... \$10.00  
Auto Spray No. 9-D, Galvanized Tank, priced at ... 7.00

**Brown's Victory**

Brown's Victory is a general purpose compressed air Sprayer. It is used for spraying shrubs, gardens, truck crops, insecticides, disinfectants, chicken houses, etc. It has the bayonet locking feature, which provides quick and easy filling. The corrugated tank is made of heavy copper bearing galvanized steel sheet, the pump cylinder is of best quality one-piece seamless brass tubing. We recommend this Sprayer as one of the best of its type.

Brown's Victory No. 201-D, galvanized tank .... \$6.00

**UTILITY No. 10-15  
KNAPSACK  
SPRAYER**

Is the most desirable style of sprayer for all general work ever put on the market. Just the right size for the average work requiring a sprayer.

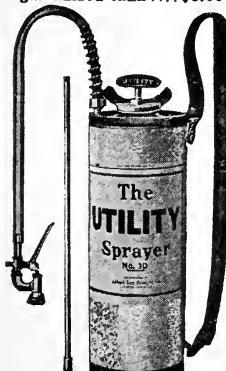
Equipped with our Patented Utility Nozzle.

Tank capacity,  $8\frac{1}{2}$  gallons; size  $7\frac{1}{4} \times 20$  inches. Made of heavy galvanized iron or brass. All seams sweated and riveted. Tested at 95 pounds. Tank equipped with Standard Hose Connection.

Pump Cylinder made of brass tubing with Bronze Ball Check Valve, which does not deteriorate like rubber. No twisting action on pump gasket.

No. 10. Galvanized, \$5.00  
No. 15. Brass, \$8.00

Nozzle made of brass, can be adjusted to be operated at any desired distance. Shut-off is always at nozzle end; designed with large waterways and strainer to prevent clogging. Equipped with No. 65 Angle Nozzle unless otherwise ordered.

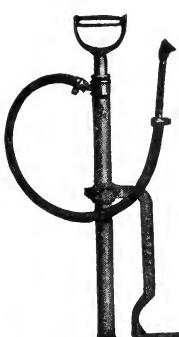
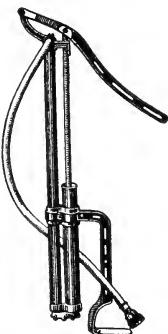
**AUTO SPRAY No. 50**

We highly recommend the Auto Spray No. 50 to our patrons. It is extremely desirable for use in spraying agricultural insecticides, disinfectants and where the spraying is not extensive, and is especially adapted for use by women or persons physically unable to carry a great weight. Tank is constructed of heavy sheet brass or strong copper bearing galvanized sheet steel. Pump cylinder is of one-piece seamless brass tubing. This Sprayer has the screw lock and drain-dry features found in the Auto Spray No. 9. Capacity,  $2\frac{1}{2}$  gallons.

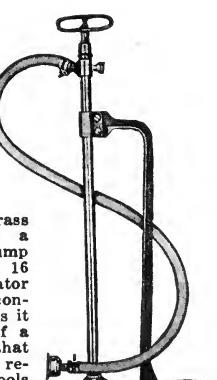
Auto Spray No. 50B, Brass Tank, priced at ..... \$9.00  
Auto Spray No. 50D, Galvanized Tank, priced at ... 6.00

**AUTO SPRAY No. 7****With Lever Bucket Handle Pump**

The lever handle and large air chamber make this the most powerful bucket pump and the easiest one to operate. All working parts are solid brass with brass ball valves and patent agitator. Fitted with graduating nozzle to throw a fine or coarse spray or a solid stream. Weight, 8 lbs. Price, \$7.

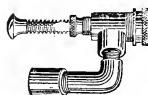
**BUCKET PUMP No. 95**

All working parts of this pump that come in contact with spray solution are brass. By removing verbal disc a straight stream can be had for washing windows, automobiles, etc., in addition to general spray purposes. Price, \$4.50.

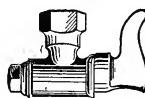
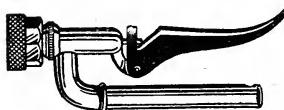
**AUTO SPRAY No. 6****Double Acting Bucket Pump**

A most powerful bucket pump, easily generates a pressure of 200 pounds. It is double acting, producing a continuous spray. Made of brass and is equipped with a brass suction strainer as well as a strainer in the nozzle. The pump is equipped with a foot rest 16 inches high, enabling the operator to use almost any bucket or container.

This is an advantage, as it does not necessitate the use of a special bucket. So constructed that it may be taken apart and reassembled without the use of tools of any kind. Price \$5.00.

**ONE POINT VERMOREL NOZZLE**

All brass, equipped with five extra steel discs which may be easily renewed. The needle plunger permits easy cleaning of the nozzle. This is an excellent nozzle for use in white-washing. Each 80c



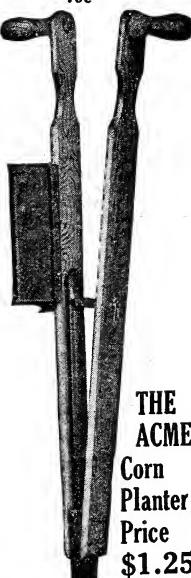
Bordeaux Nozzle  
Each 80c



No. 80 Nozzle  
75c



No. 75 Nozzle  
75c



**THE  
ACME  
Corn  
Planter**  
Price  
**\$1.25**



**THE HORN SEED SOWER**  
Will sow 40 to 60 acres per day of alfalfa, clover, timothy, millet, etc. Spread seed evenly from 30 to 40 feet. Price, postpaid, \$1.00.

A DANDY PRUNING SHEARS



No. B-100-8      \$1.00 postpaid

**THE  
EUREKA  
POTATO  
PLANTER**

Price \$1.75

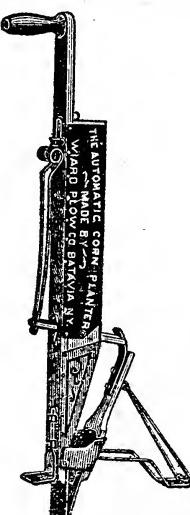


**THE PINGREE  
POTATO PLANTER**  
\$1.25 each

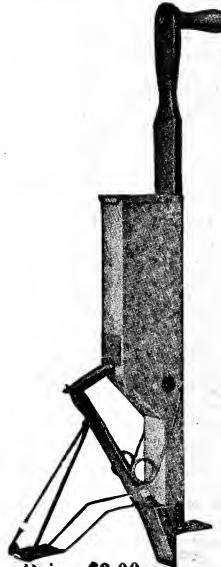
For Corn Planters see page 15.

**The ROTARY HAND  
CORN PLANTER**

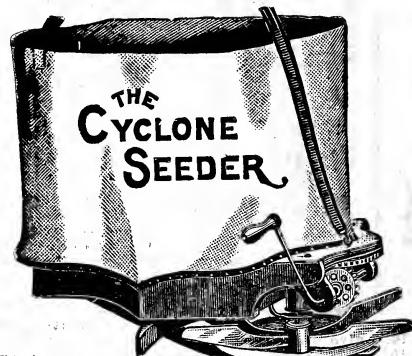
Automatic—One Hand



Price \$2.50

**THE SEGMENT  
ONE-HAND  
CORN PLANTER**

Price \$2.00



Will sow Timothy, Clover, Wheat, Oats, Rye, Buckwheat, Hungarian, Red Top, Millet and all other grains and seeds perfectly even, and any desired amount to the acre, and from 40 to 60 acres a day. Price \$2.25.

THE HORN

**ADCO****ARTIFICIAL MANURE**

(Patented in the United States and Abroad)

**ADCO** is a powder which, when mixed with almost any non-woody vegetable waste and kept moist, gradually converts the mass into real manure fully equal to the farmyard product in fertilizing power, but free from foul odor, flies, weed-seeds, etc. The process is perfectly simple and not at all laborious.

**GARDENERS** can now have plenty of manure at low cost and little trouble.

**FARMERS**, by utilizing straw, corn stalks, etc., can secure their manure without the expense and labor of maintaining live-stock.

**PRICE, F. O. B. PORTLAND**

**ADCO**, in 150-lb. bags, each ..... \$11.00  
(Enough for a heap 10 ft. x 10 ft. x 6 ft.,  
making about three tons of manure)

**ADCO**, in 25-lb. bags, each ..... \$2.35  
(Enough for 12 wheelbarrow loads of garden  
waste, making one-half ton of manure)

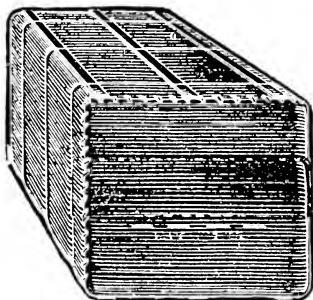
**CEL-O-GLASS**

Here is a most useful and durable material, which is recommended for use in place of glass—anywhere. **CEL-O-GLASS** is unbreakable; it is hairproof, rainproof, heatproof, coldproof, rustproof and very light in weight. It is ideal for cold frames, hotbed sash, garage and barn doors and windows—any place where you need light and protection from the weather. Easy to use—simply tack it up; no glazing, no trouble, no breakage. **CEL-O-GLASS** is shipped in rolls 3 feet wide and 100 feet long. We cut in any length. Price 14c per square foot.

**PEAT MOSS  
NATURE SOIL IMPROVER**

—It is a fine material for storing dahlia roots, tubers and bulbs and packing them for shipment.

—It is economical to use. One bale will spread three hundred square feet, one inch deep.



A few of the many purposes for which it is used:

Fertilizer Carrier	Benches (Greenhouse)
Mulching	Golf Courses
Cold Frames	Packing
Lawns	Storing Bulbs
Improving Soils	Potting
Propagating	Layering
Cuttings	Seed Beds

**PEAT Makes Poor Soil Good  
and Good Soil Better**

Price Per Bale \$3.00, F. O. B. Portland

Special price on two bales and over.

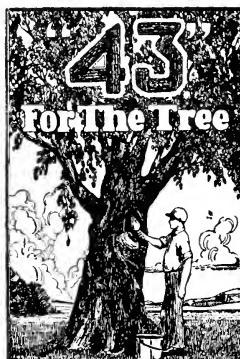
**"43" FOR THE  
TREE (Plastic)  
(A Scientific Cavity  
Filler for Trees)**

Keep a package handy to treat your trees, and keep your trees beautiful and useful. Color, black.

1-lb Can (Pint Can)	\$ .40
2½-lb Can (Quart Can)	.75
5-lb Can (½-Gal. Can)	1.25
10-lb Can (Gal. Can)	1.75

**"43" FOR THE  
TREE (Liquid)  
(An Antiseptic,  
Pruning Compound)**

1 Pint Can	\$ .40
1 Quart Can	.75
½ Gallon Can	\$1.25
1 Gallon Can	1.75

**A. B. C. PLANT PROTECTORS**

SPECIAL NON-CURLING TAR FELT PADS



PROTECTS  
FROM  
CABBAGE  
ROOT  
MAGGOT



No maggot fly will be able to lay eggs around the stem of your young plants if you use A B C Protectors. You won't lose 10 to 30 and 40 per cent of the planting, by the stems being eaten away. Last year A B C Protectors were used in all parts of the United States and Canada, many customers reporting that A B C's produced anywhere from 90 to 100 per cent crops.

We believe that this is the only protector on the market today successfully doing the work claimed for it. It lays flat on the ground, will not curl up on the edges, is the easiest protector applied, and will not dry up quickly. Price as follows, postpaid: Per doz. 10c; per 50, 30c; per 100, 40c; per 500, \$1.50; per 1000, \$3.00.



No. 212—Solid Steel Trowel. 50c, postpaid.



Garden Trowel No. 4—25c



No. 2120—SOCKET GARDEN TROWEL  
Price, 50c each, postpaid



No. 217—Transplanting Trowel. 25c, postpaid



No. F-30—SPADING FORK

A very handy tool, forged 3 tine, polished and green enameled. Length 11 in. Hardwood handle. Each 50c.



MOE'S GARDEN WEEDER

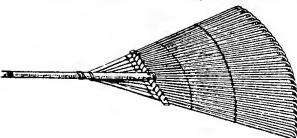
One piece pressed steel. Handsomely finished in black baked enamel. Has five steel fingers, and is one of the most useful and handiest garden tools made. Ground and polished points. Price, 25c each, postpaid.



IDEAL HAND WEEDER AND SCRAPER



Price, 30c each

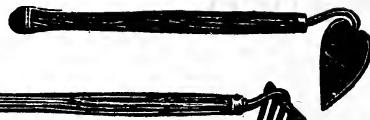


JAPANESE  
BAMBOO  
RAKE  
Each, 50c

PEAT MOSS

NATURE'S SOIL IMPROVER

The ideal all year rose mulch. Large bale PEAT Makes Poor Soil Good and Good Soil Better.



### AMERICAN BEAUTY GARDEN SET

The finest floral set made. Price, per set, \$1.10; if by mail, add 20c for postage.



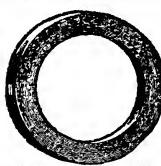
MAYNARD TROWEL  
6-inch blade and shank, solid steel socket. The best trowel made. Price \$1.00, postpaid.



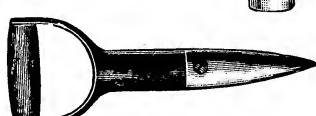
TURF EDGER  
American. Each \$1.25



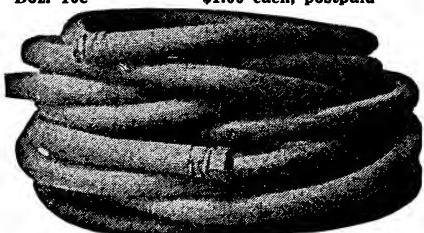
WOOD HANDLE  
DIBBLE  
\$1.00 each, Postpaid



HOSE WASHERS  
½-inch, rubber  
Doz. 10c



D HANDLE DIBBLE  
\$1.00 each, postpaid



### GARDEN HOSE Butzer's Non-Kinkable

A brand of hose, manufactured especially for greenhouse use. The inner tube is made of the best quality rubber and is very strong; the jacket of canvas or duck is mixed in such a way with the outer cover that it is extremely pliable and will not kink or crack.

Comes in reels of 500 feet, order exact number of feet you require. We can cut in any length.

Price, ½-in., 10c per ft.; ¾-in., 12c per ft. Couplings free in 10-ft. lengths and over.



No. 50  
No. 50—Nozzle  
and Hose Coupl-  
ings.  
Price ..... \$0.35

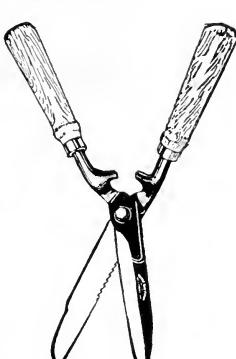
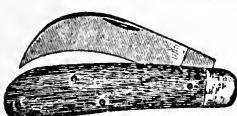


No. 40  
No. 40—Nozzle  
and Hose Stock.  
Price ..... \$0.40



No. 56  
No. 56  
Coupling, ½ in.  
Price ..... \$0.35

## PRUNING SHEARS

No. 30  
Price \$2.50 eachNo. 20  
Price \$2.00 eachNo. 5406  
Price \$2.00 eachNo. 800—8 inch... \$2.25  
No. 9—9 inch... 2.50No. 660..... \$2.00  
Special 6-inch blade

## PRUNING KNIFE

Handy grip ebony handle, curved, polished, tool steel blade, nickel-plated bolster.

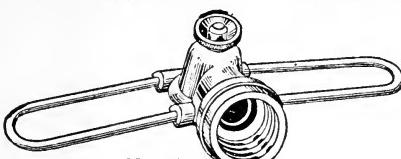
No. 9215—Price each \$1.00.



## ROSE SHEAR

Full nickel plated, 7 inches long, forged from high grade steel. Its fine finish and handy size makes it very desirable.

No. V-126—Price each \$1.00.



No. 19

## NO. 19 LAWN SPRINKLER

Non-corrosive; won't clog; with clean-out brass plug. Equal distribution of water over a large area. Base 8 inches. Can be pulled about the lawn without tipping.

Price \$1.00 each



## BUSY

A regular water flirter. runs easy. Weight 2 pounds.

Price \$1.25

## HEDGE SHEARS

BUDDING KNIFE  
Has pointed blade and broad bone opening spoon.

No. 6427—Price each \$1.50.



## PRUNING SHEAR

Full polished Swiss Pattern shear, crucible steel blade, ratchet, regulated adjusting nut; 9 inches long.

No. 202—Price each \$1.25.



## BUDDING KNIFE

A well-shaped good sized knife with special blade to open cleft for inserting buds.

No. 436—Price each \$1.25.



## PRUNING SHEAR

Heavy 9-inch shear with volute spring, high grade polished steel blade, attractive finish. A well made article.

No. V12—Price each \$1.00.



## THINNING SHEAR

Mill finish, used for thinning fruit and for picking grapes, etc. 7 inches long.

No. 101—Price each 50c.



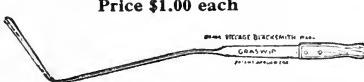
## BUDDING KNIFE

Stationary blade.  
Price, 60c each.

No. 10  
Stationary  
Stick Stand  
SprinklerNO HOLES  
TO STOP UPSPRAYS  
30 to 35 FeetPRICE  
\$1.00  
Postpaid

Blake No. 2.—Galvanized iron; tapped with  $\frac{3}{4}$ -inch iron pipe threads; used extensively for irrigating purposes where necessary to connect sprinkler on  $\frac{3}{4}$ -inch iron pipe.

Price 50c



No. 160 Grasswhip—\$1.25 each



No. 830 Weeder—50c each

runs easy. Weight 2 pounds.

# For Beautiful Lawns, Grounds and Gardens

Mist-like showers, soaking downpour or solid stream—all at instant command in every Rain King. Throws more water and throws it farther than other sprinklers on the same pressure.

## Rain King

*All Sprinkling Actions Combined  
in Each Rain King*



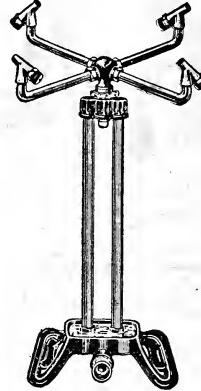
**STANDARD RAIN KING**

Waters small or large lawns, corners, long strips and odd-shaped spots. Sprinkles two directions at once or concentrates wherever water is wanted. Bearings are free from pressure which gives the Rain King long life and insures better sprinkling. Has a spraying range from four to 45 ft.

Weight 3 lbs. Packed in a substantial carton.

No. X2422. Each.....\$3.75

### THE BEST SPRINKLER MADE



**MAJESTIC C RAIN KING**

Has same base and water columns as Majestic A and B. Has same sprinkler head as the Giant Rain King. Operates on pressure as low as 7½ lbs. Throws 915 gallons of water per hour on 40 lb. pressure and will sprinkle 5,500 sq. ft. at a single setting. Weight 12 lbs.

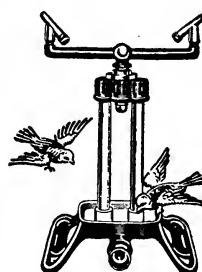
No. X8589. Each.....\$10.75



**MAMMOTH  
RAIN KING**

For golf courses, parks, large estates, etc. Connections, uprights, arms and nozzles are all over-size and will throw more water over a larger surface and distribute it more evenly than any other sprinkler. Each Mammoth has both ¾ in. and 1 in. hose connections. Arms of solid brass tubing. Base of new roller type makes the Mammoth as easy to handle as the smallest sprinkler. Capacity 1,000 gallons of water per hour on 45 lb. pressure. Sprinkles 6,000 sq. ft. at a single setting. Height 3½ ft. Spread of arms 4 ft. Wt. 32 lbs.

No. X6650. Each.....\$25.00

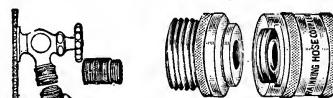


**MAJESTIC RAIN KING**

Is built a little heavier than the Standard and has a spraying range from 5 to 50 ft. Because of extra height, throws spray well out over tops of nearby plants. Has attractive bird bath base.

Majestic A 15" high. Weight 10 lbs.  
No. X6225. Each.....\$7.00

Majestic B 24" high. Weight 10 lbs.  
No. X6535. Each.....\$8.00



**RAIN KING HOSE COUPLER**

Instantly connects hose to faucet, hose to sprinkler, hose to hose, etc. Nozzle or hose to hose. Saves time, saves twisting and wear of hose. Fits over regular hose fittings. Makes a firm, leak-proof connection that stays "put."

No. X6136. ½ in. and ¾ in. size. Each 60c

No. G6145. Female End Only. Each .35c

No. G6146. Male End Only. Each .35c

Net Weight Complete 4½ oz.

No. X6740. 1 in. size. Each .....80c

No. G6742. Female End Only. Each .45c

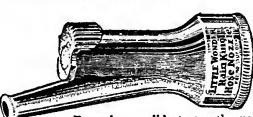
No. G6741. Male End Only. Each .35c

Net Weight Complete 8 oz.

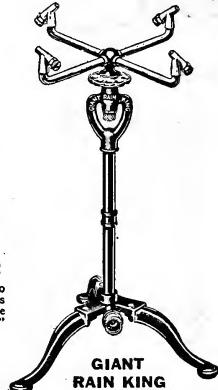
### LITTLE WONDER RAIN KING HOSE NOZZLE

Positively the simplest to use and the most efficient garden hose nozzle made. A touch of the finger on the shut off control changes from long solid stream to intermediate sprays to complete shut off. Leak-proof and wear-proof. Made all of brass. 3½ in. long. Fully guaranteed. Weight 6 oz.

No. X8483. Each.....90c



From long solid stream through every spray to complete shut off with ½ turn of the finger tip control.



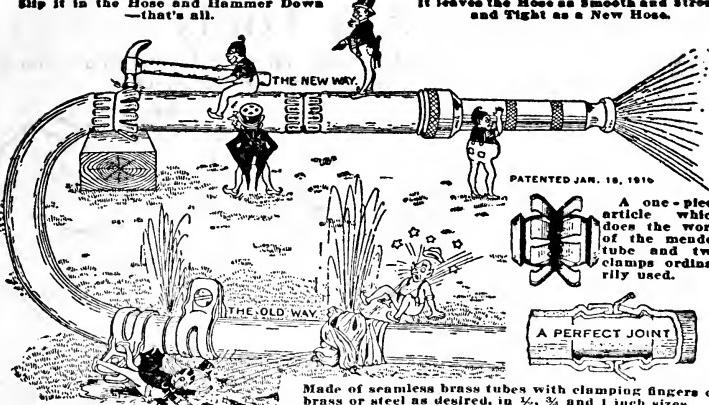
**Giant  
RAIN KING**

For big lawns, flower beds and vegetable gardens. An ideal sprinkler because of its large capacity and perfect distribution of water. Has four sprinkler arms. Can be quickly set for all of the adjustments of other Rain King sprinklers. Rain King quality of construction throughout with pressure-free, non-corroding, bronze bearings. This sprinkler is good for many years of satisfactory service. Stands on a sturdy, wide-spread tripod with metal pads to prevent injury to finest turf or tender growth. Height 4 ft. Width of arms 20 in. Weight 20 lbs.

No. X2070. Each.....\$14.50

Slip it in the Hose and Hammer Down  
—that's all.

It leaves the Hose as Smooth and Strong  
and Tight as a New Hose.



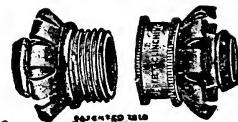
PATENTED JAN. 19, 1916



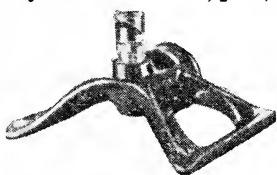
Made of seamless brass tubes with clamping fingers o  
brass or steel as desired, in  $\frac{1}{2}$ ,  $\frac{3}{4}$  and 1 inch sizes.

**PERFECT CLINCHING HOSE MENDER**—The best mender made. Please state size of your hose.  $\frac{1}{2}$  or  $\frac{3}{4}$  inch, 15c each, 2 for 25c, postpaid.

No. 55 — Brass  
Yerdon's Bands,  
 $\frac{1}{2}$  or  $\frac{3}{4}$ -inch.  
Postpaid, each 5c;  
doz. ..... \$0.50



**PERFECT  
CLINCHING  
COUPLER**  
 $\frac{1}{2}$  or  $\frac{3}{8}$  inch  
Per pair  
35c, postpaid



#### FAN SPRAY SPRINKLER

A doubtful looking sprinkler but a dandy. Throws a fan-shaped mist fourteen feet in front only. Just the sprinkler for new flower beds, lawns, etc. Set it on the walk or next to the house and throw the water only where it is wanted. Price 60c, postpaid



#### JAPANESE TUBS

These tubs have large hoops, and are imported from Japan. Small size, 13 inches high, 14 inches diameter at top. Price 75c each.

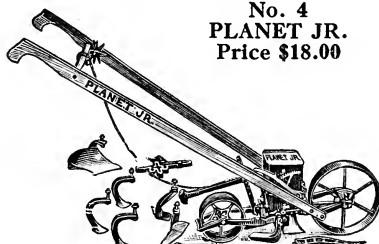
Postage extra

## Planet Jr. Garden Tools

Space will permit our describing only a few Planet Jr. Tools, but we will send to all who ask for it a fully illustrated catalogue of Planet Jr. Garden Implements.



No. 25  
PLANET JR.  
Price \$21.00



No. 4  
PLANET JR.  
Price \$18.00

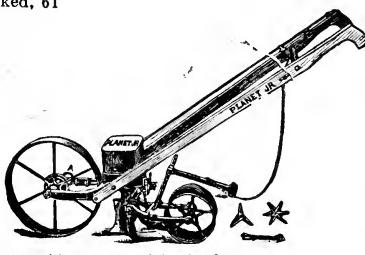
#### No. 25 PLANET JR.

Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow. Valuable for gardeners who have enough acreage for a double wheel hoe. Combines in a most practical way the No. 4 Drill and No. 12 Double and Single Wheel hoe. Holds 2  $\frac{1}{2}$  quarts of seed. Weight packed, 61 pounds. Price \$21.00.



#### No. 11 PLANET JR.

Double Wheel Hoe, with 2 pairs hoes, 2 pairs cultivator teeth, 2 pairs rakes, 1 pair plows and 1 pair leaf lifters. Price \$13.50.



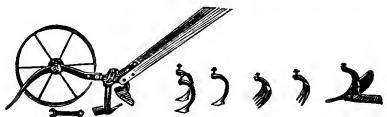
#### No. 3 PLANET JR.

**Hill and Drill Seeder**  
A favorite among onion growers, market gardeners and seedsmen. The special force feed is admirable, working equally well whether sowing with an ounce or a full hopper. 15-inch Steel Driving Wheel. Holds 3 quarts of seed. Weight packed, 43 pounds. Price \$17.00.

SEND FOR PLANET, Jr. CATALOG

# Planet Jr. Garden Tools

Space will permit our describing only a few Planet Jr. Tools, but we will send to all who ask for it a fully illustrated catalogue of Planet Jr. Garden Implements.



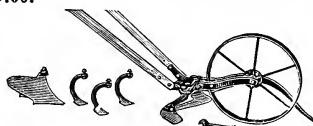
**No. 16 PLANET JR.**  
Single Wheel Hoe with 1 pair hoes, 3 cultivator teeth, 2 rakes 1 plow and 1 leaf guard.  
Price \$9.00.



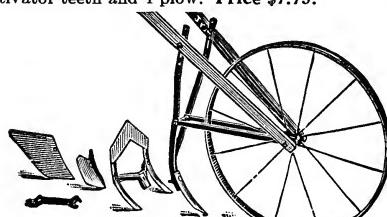
**PLANET JR.  
SEEDER  
ATTACHMENT  
No. 35**



**No. 12 PLANET JR.**  
Double Wheel Hoe, with 1 pair hoes, 2 pairs cultivator teeth, 1 pair plows and 1 pair leaf lifters. Price \$10.50.



**No. 17 PLANET JR.**  
Single Wheel Hoe, with 1 pair hoes, 3 cultivator teeth and 1 plow. Price \$7.75.



**No. 119 PLANET JR. GARDEN PLOW**  
**HOES AND CULTIVATOR**

This new member of the "Planet Jr." family will appeal to all those who prefer a high wheel tool for their garden work. Where the soil has not been so thoroughly and carefully prepared the high wheel undoubtedly makes an easy running tool.

The wheel is 24 in. in diameter with a rim 1½ in. wide, insuring easy running in the lightest soil.

The equipment is so complete that it will meet all the needs of the ordinary garden, where the adjustments and refinements of the higher priced Wheel Hoes are not required. Price \$5.00.

## Cultivating Attachments for Planet Jr. Tools

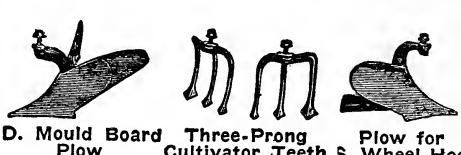


**Hoes.** C and D1 for cast frame wheel hoes. C11 and D11 for steel frames. Made in four widths. Cutting 4½-inch, per pair, \$1.20; 6-inch, per pair, \$1.30; 7-inch, per pair, \$1.60; 9-inch, per pair, \$1.75.

**Peat Land Hoes.** Like the C & D Hoes, but with extra wide high shields to prevent dirt from falling back and covering the plants. 6-inch cut only, per pair, \$2.60.

**Double Mouldboard Plow.** It can be set to furrow wide or narrow, or to hill much or little. Width at widest, 14 inches; narrowest, 10 inches. Each, \$2.40. With connecting piece for double wheel hoes and No. 25, 85c extra.

**Plows for Double Wheel Hoes.** M4 and N4 for cast frames, M5 and N5 for steel frames. Per pair, \$1.40.



**Cultivator Teeth.** No. 1395. Fit combined seeders and double and single wheel hoes. Each 40c.

**Plows for Single Wheel Hoes.** R3 for cast frames, R6 for steel frames. Each \$1.35.

**Three-Prong Cultivator Teeth.** For fine, deep work. Per pair, \$1.75.

**Onion Harvester.** 8-inch size for onions and onion sets. These make splendid weeders. Each, \$1.60.

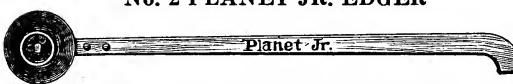
**Rakes.** Made in 3 sizes. Three-tooth, per pair, \$1.30; five-tooth, per pair, \$1.70; seven-tooth, per pair, \$2.40.

**Note—**All attachments on this page will fit Planet Jr. Single and Double Wheel Hoes and Combined Seeders and Wheel Hoes, excepting Nos. 19, 31, 33, 60, 65 and 66.



**DISC HOES**

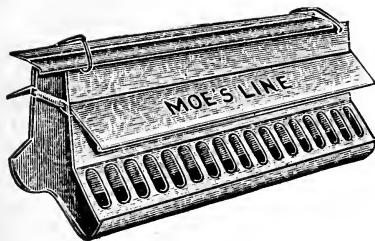
Adjustable, cuts and turns the soil, throws to or from the rows. Price, pair \$3.50.



Planet Jr.

Neatness is the great secret of attractiveness in grounds surrounding a house, and to have this neatness the grass bordering walks must be frequently edged or trimmed. With the No. 2 Planet Jr. Edger you can edge either straight or curved walks of cement, stone or brick, rapidly and easily. Weight 3¼ lbs.

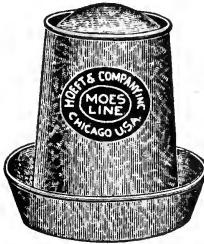
The edging disc is made of high grade steel and will last for years. Price \$1.60.

**BIG BOY FEEDERS**

Especially designed for growing stock—three to four week chicks—and up to full-grown fowl. Big capacity, about 75 pounds of dry mash, with large wide feeder openings, smooth rounded edges.

Can be placed on the ground or suspended by wire handles. Length, 33 in. with 34 feeder openings.

No. 160—Without the wide covers Each \$4.00  
No. 161—with wide adjustable covers (as shown), ..... Each \$4.75

**ROUND FOUNTAIN****MAGAZINE FEEDER**

The round taper shape prevents damage from freezing. Made in two pieces accurately formed. Galvanized steel. Easily filled and cleaned.

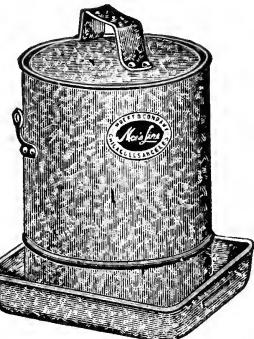
- No. 19—Capacity, 1 quart; Each \$0.25  
No. 20—Capacity, 2 quarts; Each \$0.35  
No. 24—Capacity, 1 gallon; Each \$0.50

The top magazine is water and air tight, so can be used as a Feeder or Fountain. Adjustable for various feeds. Holds 2 quarts.

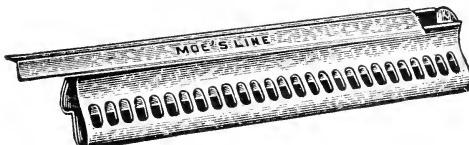
No. 18—Moe's Chick Feeder and Fountain....Each \$0.55

**CLEANABLE TOP FILL FOUNTAINS**

Moe's original Top Fill Fountain, with double walls which keep the water cool in summer and retard freezing in winter. Fills at the top and as easily cleaned as an ordinary pail. Feeds the water automatically, no valves or complicated parts. Heavy galvanized steel, with Square Pan.

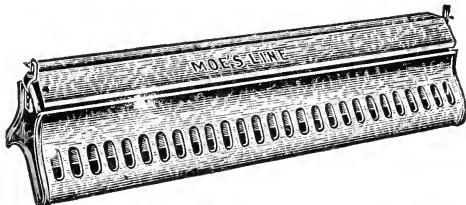


- No. 1—Capacity, 1 gallon..... Each \$1.65  
No. 2—Capacity, 2 gallons..... Each 2.65  
No. 4—Capacity, 4 gallons..... Each 3.15

**MOE'S LARGE CAPACITY FEEDERS**

The finest and most popular feeders made, for either small or large flocks. Smooth feeder holes just the right size and shape, and in just the correct position to give the chickens easy access to the feed and yet prevent needless waste. Two sizes.

- No. 140—Capacity, 10 quarts; length, 21 in.; 32 feeder holes ..... Each \$1.20  
No. 141—Capacity, 17 quarts; length, 35 in.; 54 feeder holes ..... Each 1.80

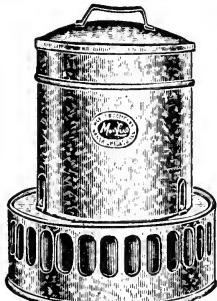
**MOE'S TILTING TOP FEEDER**

No. 141-T—The same as No. 141 (shown above), but has a Tilting or Swinging Top so that chickens cannot perch on it. Capacity, 17 quarts; length, 35 in.; 54 feeder holes ..... Each \$1.95

**PEERLESS CHICK FEEDER**

For baby chicks and growing fowl, and suited for either large or small flocks. The hopper is adjustable up or down for different kinds of mash or feed. Thirty chicks can feed at one time and they cannot foul or waste the feed. Two sizes.

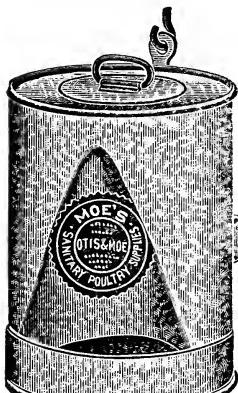
- No. 192—Capacity 10 quarts Each \$1.60  
No. 193—Capacity, 18 quarts Each \$2.10

**GRIT AND SHELL BOXES**

Economical and practical for feeding grit, shells, etc. Heavy galvanized steel, thoroughly well made, no solder used in their construction.

- No. 45—Two-Compartment Each \$0.45  
No. 9—Three-Compartment Each .85  
No. 90—Four-Compartment Each 1.20

## WALL FOUNTAIN



No. 26 ..... Each \$0.70

## MOE'S DIXIE FEEDERS



The deep, half-round troughs have a turned-in flange to prevent waste. Easy to fill and clean.

The wire top guard keeps the chicks out, and is adjustable, so it can be raised as the chicks grow in size.

## Galvanized Steel

No. 460—Length, 18 inches..... Each \$0.25  
No. 462—Length, 30 inches..... Each .40

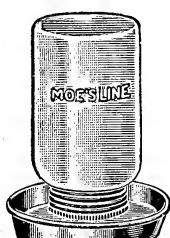
## BABY CHICK FEEDERS

Round feeders for baby chicks. Also used for water and milk. Tops fit snugly, yet are easily removed for filling and cleaning.  
No. 11—Galvanized, 8 holes;  
diameter, 6 inches..... Each \$.15.  
No. 12—Galvanized, 12 holes;  
diameter, 8 inches Each .25



## MASON JAR FOUNTAIN

Made of rust-resisting metal. No seams or solder, and fits Mason jars, sizes 1 pint, 1 quart and 2 quart.  
No. 142 (Glass jar not included)  
Each \$0.10



## STAR FOUNTAINS

No seams. No loose parts. Made of rust resisting metal. Fits any standard Mason Fruit Jar.

No. 32 Star Fountain,  
Each 10c



No. 38—A popular and practical Punch. Makes a clean perforation.  
Each \$0.15



Has a hinged drop bottom so it is easy to fill and keep clean. Wire handle, so it may be hung on the wall out of the litter.

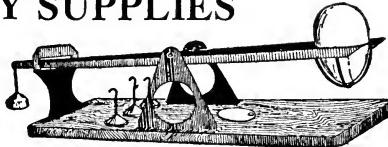
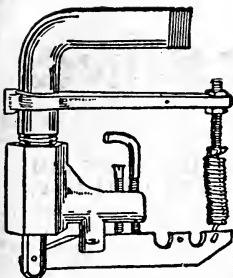
No. 41—1 gal. Each \$1.15  
No. 42—2 gals. Each 1.50

## DROPOUT FOUNTAIN

## POULTRY SUPPLIES

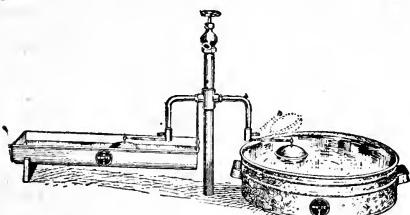
### "Guaranteed" Automatic Water Fountain

Is the BIGGEST LABOR SAVER on the farm. Especially designed for poultry, can be attached to any water line, tank or even a barrel. Is operated by the gravity pressure of the drinking pan, supplies fresh water to your fowls automatically. Price, \$1.75 each.



### Gilt Edge Egg Scale

Simple in construction and easy to operate, graduating by the ounce per dozen. Is universally used. Price, \$1.35, postpaid.



### Servall Float Fountain

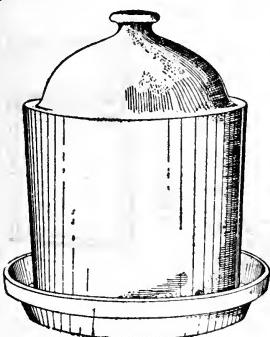
The above illustration shows two ways that the Servall fountain can be used.

Every part of this fountain is made of pure brass, also the float. The Watertite Valve is one of the good features of this fountain.

Made to fit standard  $\frac{3}{4}$ -inch pipe.

This Servall Float Fountain will fill every requirement for STOCK water control such as is used on small dairies or a horse or cow, it has a running capacity of from 2 to 5 gallons of water per minute depending on the pressure.

The Servall Float Fountain will be prepaid to any address in the United States or Canada upon receipt of \$1.25.



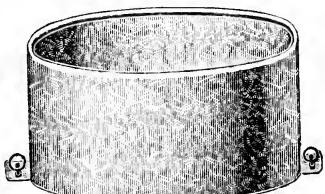
### Sanitary Stone Fountain

These are strong and well finished; made in two pieces. They probably keep the water cooler than the galvanized fountains, but are heavier to handle and more liable to break.

Price— $\frac{1}{2}$  gal., 65c;  
1 gal., 75c; 2 gal., \$1.25.

Cannot be mailed.

### Rabbit Dishes



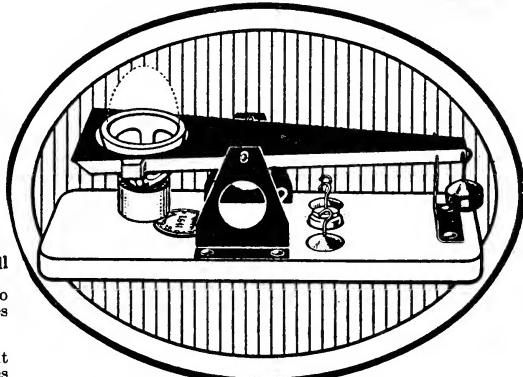
### MOE'S FEED AND WATER DISH

Made of galvanized iron. Rolled in top prevents wasting. Dish held to the floor of hutch by simple locking device, easy to remove for cleaning. Impossible for stock to tip over.

No. 46—Each ..... 25c

### Poultry Pepper

A good tonic and invigorator. Ground. Price, 1 lb., 35c, postpaid.



### The White Line Egg Grader

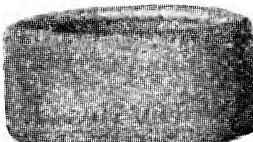
is the most favored of any egg grader on the market, first, because it is perfect in its balance and assures a Perfect grade, the swinging egg basket is a very attractive feature as the egg may be placed in the basket in any position and give you a correct weight. This grader weighs ten (10) grades, namely: 18, 19, 20, 21, 22, 23, 24, 25, 26 and 27 ounces to the dozen. Price, each, postpaid, \$1.85

### Ideal Egg Box



One dozen size, price per doz., 25c, postpaid; 100 for \$1.00 (not postpaid); 100 cartons when packed for shipping weight 14 lbs.

### Earthenware Dishes



Made especially for rabbits and small pets. Cannot tip over and the saving in feed soon pays for them.

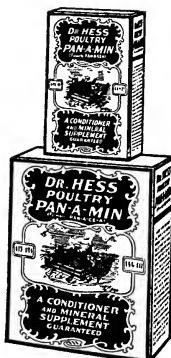
Prices—6-inch ..... 15c

8-inch ..... 25c

By Parcels Post add 8c each for safe packing. Weight about 2 lbs.

## PAN-A-MIN

Pan-A-Min has been known to poultry raisers for more than 30 years as Dr. Hess Poultry Pan-a-min.



It is now a greatly improved product. Pan-A-Min is of high value to moulting hens, in egg production, in reducing chick mortality, in bone and feather growth and in maintaining health.

It does not take the place of feed and no feed can take the place of Pan-A-Min.

3 lbs., 65c; 7 lbs., \$1.25; 15 lbs., \$2.25; 25 lbs., \$3.50, postpaid. Guaranteed.

## FOR WORMS IN POULTRY

Dr. Hess Poultry Ver-mi-trol is a flock treatment. No individual handling of birds is necessary. It is simply given with the feed in two 10-day courses, three weeks apart, with Dr. Hess Poultry Pan-a-min fed regularly.

It is not drastic, does not throw hens or pullets off production and does not interfere with growth and development of young birds. It is palatable, all birds eat it readily.

As a preventive measure, to avoid worm infestation, a twice-a-year flock treatment, early summer and late fall, is strongly recommended. 4-lb. package, \$1.50, postpaid.



## Instant Louse Killer

Guaranteed

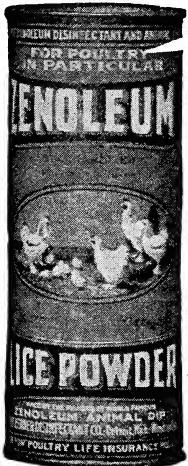
Kills lice on poultry, horses, cattle; sheep ticks; bugs on cucumber, squash and melon vines; cabbage worms; slugs on rose bushes, etc. Sold in sitting-top cans. Look for the word "Instant" before buying.

1-lb. packages, 30c; 2½-lb. packages, 60c.

## ZENOLEUM LICE POWDER

A high grade fluffy dusting powder, using tobacco as a base, mixed with non-poisonous insecticides. A sure lice killer for poultry and live stock. A big winter help, but good all the year round. Great for chicks. We have succeeded in producing the finest lice powder in the world. Try it now!

Pkg. 35c, postpaid.



## Dr. Hess Dip and Disinfectant



Small.....	\$ .60
Quarts.....	.75
2-quarts.....	1.25
1 gallon.....	2.00

Postpaid

# DON SUNG

Makes Hens Lay  
Lots of Eggs - All the Year Round

## GETS THE EGGS WHEN EGGS ARE SCARCE. KEEPS HENS HEALTHY.

This famous tonic GETS THE EGGS no matter how cold or wet the weather. Easily given in the feed, and beneficial to all poultry. Instead of feeding loafing hens all winter, you can now get big egg yields when eggs are scarce and high priced. Starts pullets laying early. Helps hens through the moult and starts them laying regularly. It must satisfy you, or we will refund your money.

### TABLET FORM

50c Size (This is the Trial  
Guaranteed Size).

\$1 Size (3 times 50c Size)

\$5 Size (6 times \$1 Size)

### POWDERED FORM

3 lbs. .... \$10  
10 lbs. .... \$10  
25 lbs. .... \$20  
50 lbs. .... \$35

# TSF

Kills Poultry  
LICE

TALCUMIZED SOOTH FLUORIDE

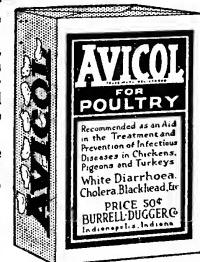
## ONE APPLICATION Does the Work

T. S. F. kills both old and young lice, including the lice that hatch from the eggs present at time of treatment. Easily given by pinch method, dip or dusting. Specially processed. Adheres to the plumage. Non-Irritating. One application lasts an entire season. Packed in special shaker-top cans with Government's directions for using.

35c Size (enough for 50 birds): Twice the 35c Size, 60c;  
Five times the 60c Size (Economy Size), \$2.50.

Don't sit back and say your loss of baby chicks can't be stopped. It CAN BE STOPPED—easily, quickly, and at almost no expense. All you need do is drop an Avicol tablet in the water occasionally. Avicol is a special bowel astringent, and helps the chick withstand infection.

Price 50¢; Special Large Size  
(almost 3 times 50c size), \$1.00.



## Wormoids

Large round worm infestation in poultry is a common condition. Many flocks are badly affected—yet the poultryman is not aware of it. The most common symptoms are general emaciation, wasting away or going light. If your flock is not in good health, it is a mighty good plan to look for intestinal worms.

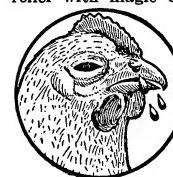
Price, 50 Capsules, \$1.00, postpaid

## Group-OVER

(Formerly Called Roup-Over)

## For Colds in Poultry

Use this famous remedy at the very first symptom of colds in your flock. It clears the air passages and brings relief with magic quickness. Easily used, both for individual treatment and in the drinking water for flock prevention. Leading poultry raisers everywhere now use Group-Over, the over-night remedy. It's so easy! So sure! There's no other remedy like it—nothing "just as good." Have a bottle ready to use when you need it. Price 50c; Large Size (3 times the 50c size), \$1.00.



**QUANTITY OF SEED TO PRODUCE A  
GIVEN NUMBER OF PLANTS  
AND SOW AN ACRE.**

Quantity per acre.

Artichoke, 1 oz. to 500 plants.....	6 oz.
Asparagus, 1 oz. to 800 plants.....	1 lb.
Asparagus Roots .....	1000 to 7250
Barley .....	2½ bu.
Beans, dwarf, 1 pint to 100 ft. of drill.....	1 bu.
Beans, pole, 1 pint to 100 hills.....	½ bu.
Beet, garden, 1 oz. to 100 ft. of drill.....	7 lbs.
Beet, Mangel, 1 oz. to 100 ft. of drill.....	5 lbs.
Broccoli, 1 oz. to 5000 plants.....	2 ozs.
Brussels Sprouts, 1 oz. to 5000 plants....	2 oz.
Buckwheat .....	½ bu.
Cabbage, 1 oz. to 5000 plants.....	2 oz.
Carrot, ¼ oz. to 100 ft. of drill.....	2½ lbs.
Cauliflower, 1 oz. to 5000 plants.....	2½ oz.
Celery, 1 oz. to 15,000 plants.....	2 oz.
Chicory .....	.4 lbs.
Clover, Alsike and White Dutch.....	.6 lbs.
Clover, Lucerne .....	15 to 25 lbs.
Clover, Crimson Trefoil .....	10 to 15 lbs.
Clover, Large Red and Medium....	8 to 12 lbs.
Collards, 1 oz. to 5000 plants.....	2 oz.
Corn, rice (shelled) .....	2 qts.
Corn, sweet, ¼ pint to 100 hills.....	6 qts.
Cress, ¾ oz. to 100 ft. of drill.....	12 lbs.
Cucumber, 1 oz. to 100 hills.....	1 to 3 lbs.
Egg Plant, 1 oz. to 2000 plants.....	4 oz.
Endive, ¼ oz. to 100 ft. of drill.....	4½ lbs.
Flax, broadcast .....	½ bu.
Garlic, bulbs, 1 lb to 10 ft. of drill.	
Gourd, 2 oz. to 100 hills.	
Grass, Blue, Kentucky .....	2 bu.
Grass, Blue, English .....	1 bu.
Grass, Hungarian and Millet .....	½ bu.
Grass, Mixed Lawn .....	3 to 5 bu.
Grass, Red Top, Fancy Clean.....	8 to 10 lbs.
Grass, Red Top, in Chaff.....	20 to 28 lbs.
Grass, Timothy .....	¼ bu.
Grass, Orchard, Perennial Rye, Fowl Meadow and Wood Meadow.....	2 bu.

**AVERAGE TIME REQUIRED FOR SEEDS  
TO SPROUT**

Bean .....	5-10 days
Beet .....	7-10 "
Cabbage .....	5-10 "
Carrot .....	12-18 "
Cauliflower .....	5-10 "
Celery .....	10-20 "
Corn .....	5- 8 "
Cucumber .....	6-10 "
Lettuce .....	6- 8 "
Onion .....	7-10 "
Pea .....	6-10 "
Parsnip .....	10-20 "
Pepper .....	9-14 "
Radish .....	3- 6 "
Tomato .....	6-12 "
Turnip .....	4- 8 "

Plant radishes with slow growing vegetables to mark the rows for cultivation.

**DISTANCES FOR PLANTING TREES:**

(In planting trees the greater distance  
should be given on the richer soils.)

Apples .....	20 to 30 feet each way
Pears (Standard) .....	20 to 25 feet each way
Pears (Dwarf) .....	12 to 15 feet each way
Quinces .....	.15 to      feet each way
Peaches .....	.18 to 24 feet each way
Plums .....	.15 to 20 feet each way
Cherries .....	.15 to 20 feet each way
Blackberries .....	6x4
Raspberries .....	6x3
Currants .....	5x3
Gooseberries .....	5x3
Strawberries (Hills) .....	.36 by 18 inches
Strawberries (Matted rows) .....	.48 by 12 inches
Grapes .....	.8x8 to 10x12

**USUAL DISTANCES FOR PLANTING  
VEGETABLES—(Bailey)**

Asparagus, rows, 3 to 4 feet apart, 1 to 2 feet apart in rows.
Beans, bush, 2 to 3 feet apart, 1 foot apart in rows.
Beans, pole, 3 to 4 feet each way.
Beets, early, in drills 12 to 18 inches apart.
Beets, late, in drills 2 to 3 feet apart.
Cabbage, early, 16x18 inches to 18x30 inches.
Cabbage, late, 2x3 feet to 2½x3½ feet.
Carrots, in drills 1 to 2 feet apart.
Cauliflower, 2x2 feet to 2x3 feet apart.
Celery, rows 3 to 4 feet apart, 6 to 9 inches in row.
Corn, sweet, rows 3 to 3½ feet apart, 9 inches to 2 feet in rows.
Cucumber, 4 to 5 feet each way.
Egg-plant, 3x3 feet.
Lettuce, 1x1½ feet or 2 feet.
Melon, Musk, 5 to 6 feet each way.
Melon, Water, 7 to 8 feet each way.
Onions, in drills from 14 to 20 inches apart.
Parsnips, in drills 18 inches to 3 feet apart.
Peas, in drills early kinds, usually in double rows, from 6 to 9 inches apart, late, in single rows 2 to 3 feet apart
Pepper, 15 to 18 inches by 2 to 2½ feet.
Potatoes, 10 to 18 inches by 2½ to 3 feet.
Pumpkins, 8 to 10 feet each way.
Radish, in drills, 10 to 18 inches apart.
Rhubarb, 2 to 4 feet by 4 feet.
Salsify, in drills 1½ to 2 feet apart.
Spinach, in drills 12 to 18 inches apart.
Squash, 3 to 4 feet by 4 feet.
Sweet Potatoes, 2 feet by 3 to 4 feet.
Tomato, 4 feet by 4 to 5 feet.
Turnip, in drills 1½ to 2½ feet apart.

## NUMBER OF PLANTS PER ACRE AT VARIOUS DISTANCES

Distance, Inches.	Plants.	Distance, Inches.	Plants.	Distance, Feet.	Plants.	Distance, Feet.	Plants
1x 1	6,272,640	10x48	13068	4x 5	2178	9x10	484
1x 3	2,090,880	15x15	27878	4x 6	1815	9x11	440
1x 4	1,568,160	15x30	18399	4x 7	1556	9x12	408
1x 5	1,254,528	15x36	11616	5x 5	1742	10x10	435
2x 2	1,568,160	18x36	9680	5x 6	1452	10x12	363
2x 3	1,045,440	18x48	7260	5x 7	1244	10x15	290
2x 4	.784,080			5x 8	1089	10x18	242
		Feet.					
2x 5	627,264			5x 9	968	10x20	217
3x 3	696,960	1x 1	43560	6x 9	1210	12x12	302
3x 4	522,720	1x 2	21780	6x 7	1037	12x15	242
3x 5	418,176	1x 3	14520	6x 8	907	12x20	181
4x 4	392,040	1x 4	10890	6x 9	806	15x15	193
4x 5	313,632	1x 5	8712	6x10	726	15x18	161
5x 5	250,905	2x 2	10890	7x 7	888	15x20	145
6x 6	174,240	2x 3	7260	7x 8	777	18x18	134
7x 7	128,012	2x 4	5445	7x 9	691	18x20	121
8x 8	98,010	2x 5	4356	7x10	622	18x24	100
9x 9	77,440	3x 3	4840	8x 8	680	20x20	108
10x10	62,726	3x 4	3630	8x 9	605	20x24	90
10x20	31,363	3x 5	2904	8x10	544	20x30	72
10x24	26,136	3x 6	2420	8x11	495	30x24	60
10x30	20,908	3x 7	2074	8x12	453	30x30	48
10x36	16,424	4x 4	2722	9x 9	537	30x36	40

NUMBER OF PLANTS TO ACRE  
SET AT REGULAR DISTANCES APART

DISTANCE APART	No. Plants
1 ft. by 6 in.	87,120
2 ft. by 6 in.	43,560
2 ft. by 12 in.	26,780
2 ft. by 18 in.	14,520
2½ ft. by 12 in.	17,420
2½ ft. by 18 in.	11,616
2½ ft. by 2 ft.	8,712
3 ft. by 1 ft.	14,520
3 ft. by 1½ ft.	9,924
3 ft. by 2 ft.	7,260
3 ft. by 3 ft.	4,840
4 ft. by 1 ft.	10,890
4 ft. by 2 ft.	5,445
4 ft. by 3 ft.	3,630
4 ft. by 4 ft.	2,722
5 ft. by 1 ft.	8,712
5 ft. by 2 ft.	4,356
5 ft. by 3 ft.	3,904
5 ft. by 4 ft.	2,178
5 ft. by 5 ft.	1,742
6 ft. by 3 ft.	2,420
6 ft. by 4 ft.	1,815
6 ft. by 6 ft.	1,200

DISTANCE APART	No. Plants
7 ft. by 7 ft.	888
8 ft. by 8 ft.	680
9 ft. by 9 ft.	537
10 ft. by 10 ft.	435
11 ft. by 11 ft.	360
12 ft. by 12 ft.	302
14 ft. by 14 ft.	222
15 ft. by 15 ft.	193
16 ft. by 16 ft.	170
17 ft. by 17 ft.	150
18 ft. by 18 ft.	134
19 ft. by 19 ft.	120
20 ft. by 20 ft.	108
25 ft. by 25 ft.	69
30 ft. by 30 ft.	48
33 ft. by 33 ft.	40
40 ft. by 40 ft.	27
50 ft. by 50 ft.	12
60 ft. by 60 ft.	17
66 ft. by 66 ft.	10

Rule.—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and product will be the number of square feet for each plant or hill; which divided into the number of square feet (43,560), will give the number of plants to the acre.

## MATURITY TABLE

## No. of Days.

	No. of Days.
Beans	40 to 90
Beets	50 to 100
Cabbages	80 to 120
Cauliflowers	100 to 120
Carrots	60 to 100
Celery	120 to 140
Sweet Corn, table use	65 to 80
Cucumbers	45 to 60
Egg Plants	140 to 150
Endives	50 to 70
Kale	100 to 130
Kohl Rabi	80 to 90
Lettuce	40 to 65
Melons	75 to 90
Mangel Wurzels	140 to 150
Okra	90 to 100
Onions for green	60 to 70
Onions for storage	120 to 160
Parsnips	120 to 140
Peas	50 to 100
Peppers	120 to 140
Pumpkins	100 to 120
Salsify	120 to 160
Spinach	30 to 40
Squash, Summer	55 to 60
Squash, Winter	100 to 125
Tomatoes	90 to 110
Turnips	45 to 90

## GRAIN AND FORAGE CROPS

	Pounds per acre	Weight per bu.		Pounds per acre	Weight per bu.
Alfalfa	15-25	60	Oats for grain	50-60	32
Barley, for grain	100	48	Oats for forage	100	32
Barley, for forage	140	48	Peas, Field, Broadcast	150-160	60
Beans, Soya or Soja	60-75	60	Peas with Oats	90-100	60
Buckwheat	50-75	48	Rye for grain	60-75	56
Clover, Alsike	6-8	60	Rye for forage	80-100	56
Clover, Crimson	18-20	60	Rape, Dwarf Essex, in drills	4-6	50
Clover, Mammoth Red	10-12	60	Rape, Dwarf Essex, broadcast	8-10	50
Clover, Medium Red	10-12	60	Sudan Grass, in drills	4-6	40
Clover, White Sweet	20	60	Sudan Grass, broadcast	18-20	40
Corn, Flint for grain	15	56	Vetch, Spring, with one bushel small	40-60	60
Corn, Dent for silage	20-30	56	grain	40-60	60
Millet, Golden	50	50	Vetch, Winter or Hairy, with one	40-60	60
Millet, Hungarian	50	48	bushel small grain	40-60	60
Millet, Japanese	15-25	35	Wheat	90-120	60

## GRASS SEEDS

	Pounds per acre	Weight per bu.
Awnless Brome	18-25	14
Blue Grass, Canada	30-35	14
Blue Grass, Kentucky	20-25	14
Creeping Bent	50	14
Crested Dogtail	30	28
Fescue, Hard	30	16
Fescue, Meadow	24	16
Fescue, Red or Creeping	30	16
Fescue, Sheep's	40	16
Fescue, Various Leaved	20-25	15
Meadow Foxtail	30	8
Orchard Grass	20-25	14
Rye Grass, English	50	28

## ALL YEAR TREATMENT DISEASE ENEMIES OF

### VEGETABLES

**Asparagus Rust**—Spray with Dry Lime Sulphur or Fungi Bordo. Use according to directions on package.  
**Cut Worms**—Mix 1 lb. Paris Green in 10 lbs. of bran. Add one quart black strap molasses and two lemons chopped fine. Mix the whole to a crumbly mass and scatter in the field.

**Grass Hoppers**—Same as for cut worms.

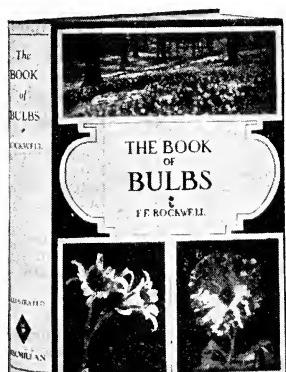
**Mildew on Peas**—Spray with Fungi Bordo. Follow directions on the package.

**Potato Diseases**—For scab and other fungi on potatoes, dip the tubers in a solution of one pint formaldehyde and 25 gallons of water allowing them to soak two hours.

### FORMULA FOR CUTWORM AND GRASS-HOPPER POISON FOR FIVE ACRES

Paris Green (or white arsenic).....1 lb.  
 Molasses (cheap blackstrap preferably).....2 qts.  
 Lemons (or oranges).....½ doz.  
 Water.....4 gals.  
 Bran (or alfalfa meal).....25 lbs.

**Book of Bulbs,**  
 The. By F. F. Rockwell. With this complete and practical book you can get the utmost in beauty from every kind of bulbous plant. Clearly written by one who knows; illustrated with 187 beautiful photographs and instructive drawings. Includes tulips, daffodils, hyacinths, lilies, crocuses, glads, dahlias, peonies, irises, begonias, and scores of other beautiful but not-so-well-known bulbs. We recommend it as the best and most complete bulb book. 187 illustrations. 264 pages.....\$2.00



	Pounds per acre	Weight per bu.
Oats for grain	50-60	32
Oats for forage	100	32
Peas, Field, Broadcast	150-160	60
Peas with Oats	90-100	60
Rye for grain	60-75	56
Rye for forage	80-100	56
Rape, Dwarf Essex, in drills	4-6	50
Rape, Dwarf Essex, broadcast	8-10	50
Sudan Grass, in drills	4-6	40
Sudan Grass, broadcast	18-20	40
Vetch, Spring, with one bushel small	40-60	60
grain	40-60	60
Vetch, Winter or Hairy, with one	40-60	60
bushel small grain	40-60	60
Wheat	90-120	60

	Pounds per acre	Weight per bu.
Rye Grass, Italian	60	22
Rye Grass, Pacey's	50	28
Red Top, Recleaned seed, Worcester		
Brand	40-50	36
Red Top, Unhulled seed	70	14
Rhode Island Bent	20-40	14
Rough Stalk Meadow	30-35	26
Sweet Vernal, use only in mixture.		
Tall Meadow Oat	45	12
Timothy	12-25	45
Lawn Seed Mixture, Shady Spot	100-125	20
Lawn Seed Mixture, Worcester Brand	100-125	25
Wood Meadow	25-30	19

## AGAINST INSECTS AND GARDEN AND GROVE

Grind lemons with meat grinder; mix all ingredients thoroughly. Spread thinly to avoid danger to livestock.

Best spread in the late afternoon.

**Tomato Worms**—Pick off by hand or before fruit is half grown. Spray with Arsenate of Lead solution three to four level tablespoonsfuls to one gallon of water.

**Tomato Blight**—Spray with Fungi Bordo, using according to directions on the package.

**Slugs**—Dust with Hammond's Slug Shot or Snarol.

**Melon Blight**—Spray the hill freely with Fungi Bordo so that the liquid will follow the stem several inches below the surface. This should be done as a precaution as well as for a remedy.

**Climbing Insects**—To prevent ants and other insects from entering trees, apply Tree Tanglefoot.

## HOW TO KILL WEEDS IN LAWNS

Mix 1½ pounds Sulphate of Ammonia, ½ pound Iron Sulphate, and 12 pounds plain sand. Mix well and distribute evenly over the entire lawn. It gives the best results if the grass is cut a few hours before applying so that the weeds will be exposed to the action of the chemicals. Results are the best on a hot bright day.

## GARDEN BOOKS

Send for booklet on books as space will not permit listing.

### 1001 Garden Questions Answered

By Prof. Alfred C. Hottes

A unique guide book of garden operations for each day, answering thoroughly and in an easily understood manner over 1,000 questions on the growing and care of flowers, fruits, vegetables, trees, shrubs, lawns, etc.; in fact, every phase of home gardening. 320 pages, well illustrated and carefully indexed.

Paper, \$1.50; cloth, \$2.00	\$3.15
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Wayside Marketing, by Arnold	1.65
Practicable Vegetable Culture, by Wilkinson	2.15
Foundation Planting, by Johnson	3.65
The Book of Perennials, by Hottes	1.65
The Complete Home Landscape, by Jennings	2.65
Dahlia Culture, Modern, by W. H. Waite	
The person who wants to grow better Dahlias by a man who is doing it. It treats on situation, soil types, cultivation and all the details of growing Dahlias, propagating them, exhibiting them and enjoying them. Illustrated. 134 pages. Six 4-color plates. 24 half-tones. Cloth Bound	\$1.50

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## BIRD SEED—Select—Recleaned

	Price		Price
Canary Seed, per lb., postpaid	\$.15	Sunflower Seed, per lb., postpaid	\$.20
Rape Seed, per lb., postpaid	.15	Maw Seed, per lb., postpaid	.50
Hemp Seed, per lb., postpaid	.15	Lettuce Seed, per 1/4-lb., postpaid	.10
Flax Seed, per lb., postpaid	.15	Cuttle Bone, each postpaid	.05
Millet Seed, per lb., postpaid	.15	Mixed Bird Seed, lb., 15c; 5 lbs., 60c, postpaid.	

The postpaid prices apply only to the 1st, 2nd and 3rd zones.

It will be noticed that our catalog for the coming season has taken a simpler form in accordance with the general call for economy. Please, therefore, do not put this catalog aside but keep it for your order and for reference throughout the season.

Our stock is large and we have put our prices on a reasonable basis. We look forward to still larger orders from you this season which will receive our best attention.

Thanking you in anticipation,

J. J. BUTZER.

# BUTZER'S



## SEEDS

THE KIND THAT GROW  
"YOU CAN'T KEEP THEM IN THE GROUND"